SHARP

MX-5112N / MX-4112N
Digital Full Colour Multifunctional System

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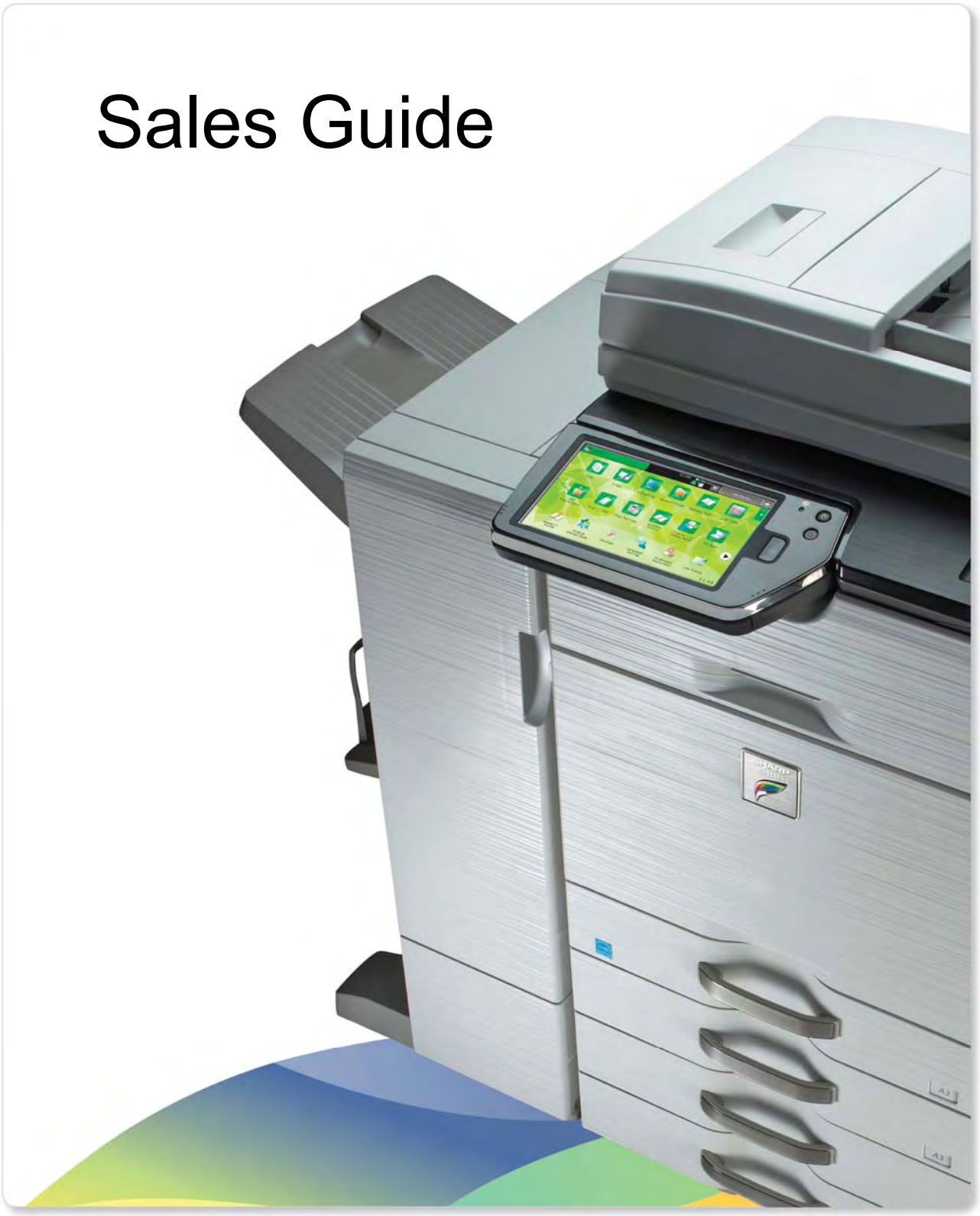
Sales Guide



Introduction

The MX-5112N and MX-4112N are the next generation MFPs with high speed, high productivity, environmentally advanced features and leading edge design user interface.

These A3 full colour machines are a great choice for any mid to large office that needs high performance, high quality colour and versatility in the office. Print and copy speeds are as fast as 51/41 pages per minute respectively – in colour and black & white – plus automatic two-sided colour scanning, robust security features, remote access interface and powerful utility software. A range of options includes fax, extra security and a wide range of finishing options.

These new machines are also equipped with 'finger-swipe' touch control – a design evolution which is rapidly becoming an industry standard. The new 10.1" large LCD panel with cutting-edge new functionality makes this machine one of the most desirable and easy to use MFPs in the industry. The panel has no hard keys, other than power, power save, and home button. Its intuitive design and flick and tap touch functionality makes it very easy to use and offers wider flexibility. The user can customise the home screen to his/her own preference and the large screen makes it easier to read text and access applications.

The Energy Star-certified MX-5112N / MX-4112N are designed to fully support environmental objectives. Using LED lights in the scanner for lower power consumption, reduced warm up time, limited power consumption in standby mode, enhanced auto-power shut off mode and Eco mode all result in a versatile MFP with a Typical Energy Consumption among the lowest in its class.

An optional web browsing expansion kit enables the user to browse the Internet directly from the MFP panel and print web content. Furthermore, the latest Sharp OSA offers enhanced integration by enabling connection to server applications outside the firewall.

In summary the MX-5112N / MX-4112N are strong contenders in the competitive A3 colour MFP market, and well placed to attack the main colour category within that market.

Contents

INTRODUCTION 2

MARKET ANALYSIS 5

- Overview 5
- The Competition 7

PRODUCT POSITIONING 9

- Product Range Positioning 9
- Recommended MCV 10
- Product Overview 11
- Comparison between MX-5000N/01N / MX-4100N/01N Vs MX-5112N / MX-4112N 12

KEY SELLING POINTS 18

- Intuitive User Interface 18
- User-Friendly Design 23
- Sharp OSA 24
- Sharp OSA Network Scanner Tool 25
  - Main Features 26
- Environmentally Friendly 28
- Image Quality 31
  - Copy/Print 31
  - Copy 32
  - Print 32
  - Document Filing Data 35
  - Scan 36
- High Productivity (specification-related) 39
  - Copy/Print/Scan Speed 39
- High Productivity (function-related) 41
  - Copy 41
  - Print 44
  - Image Send 45
  - FAX 48
  - PC-FAX 48
  - Document Filing 49

- Flexible Paper Handling 50
- Ease of Use 52
- Multi-layered Security Solutions 54
- Connectivity 56

COMPETITIVE COMPARISON 58

- Sharp MX-5112N / MX-4112N vs. Canon iR-ADVANCE C5045/i 59
- Sharp MX-5112N / MX-4112N vs. Canon iR-ADVANCE C5051/i 60
- Sharp MX-5112N / MX-4112N vs. Ricoh MP C4501 61
- Sharp MX-5112N / MX-4112N vs. Ricoh MP C5501 62
- Sharp MX-5112N / MX-4112N vs. Konica Minolta bizhub C452 63
- Sharp MX-5112N / MX-4112N vs. Konica Minolta bizhub C552 64
- Sharp MX-5112N / MX-4112N vs. Toshiba e-Studio 4520c 65
- Sharp MX-5112N / MX-4112N vs. Toshiba e-Studio 4520c PRO 66
- Sharp MX-5112N / MX-4112N vs. Kyocera TASKalfa 400ci 67
- Sharp MX-5112N / MX-4112N vs. Kyocera TASKalfa 500ci 68
- Sharp MX-5112N / MX-4112N vs. Xerox WorkCentre 7545 69
- Sharp MX-5112N / MX-4112N vs. Xerox WorkCentre 7556 70

SPECIFICATIONS 71

- Basic Specifications 71
- Peripheral devices specifications 74
- Functions 81

CONFIGURATIONS 96

- Options List 96
- Outer Dimensions 97
- Functional Combinations 99
- Consumables List 100

Market Analysis

Overview

Below is the historical data for A3 colour MFPs in all of Europe from 2005 to 2014 forecast. The A3 colour MFP market has dramatically increased since B to C (Black to Colour) strategy started around 2004 - 2005.

In 2008, the market had more than doubled compared to 2005 (230.1% vs. 2005) mainly growing in the 20-29 cpm category. However, if we look at the ratio, by category, from 2005 to 2008, the 30–49 cpm category has increased by 448.4% vs. 2005 (20-29 cpm category is 296.3% vs. 2005).

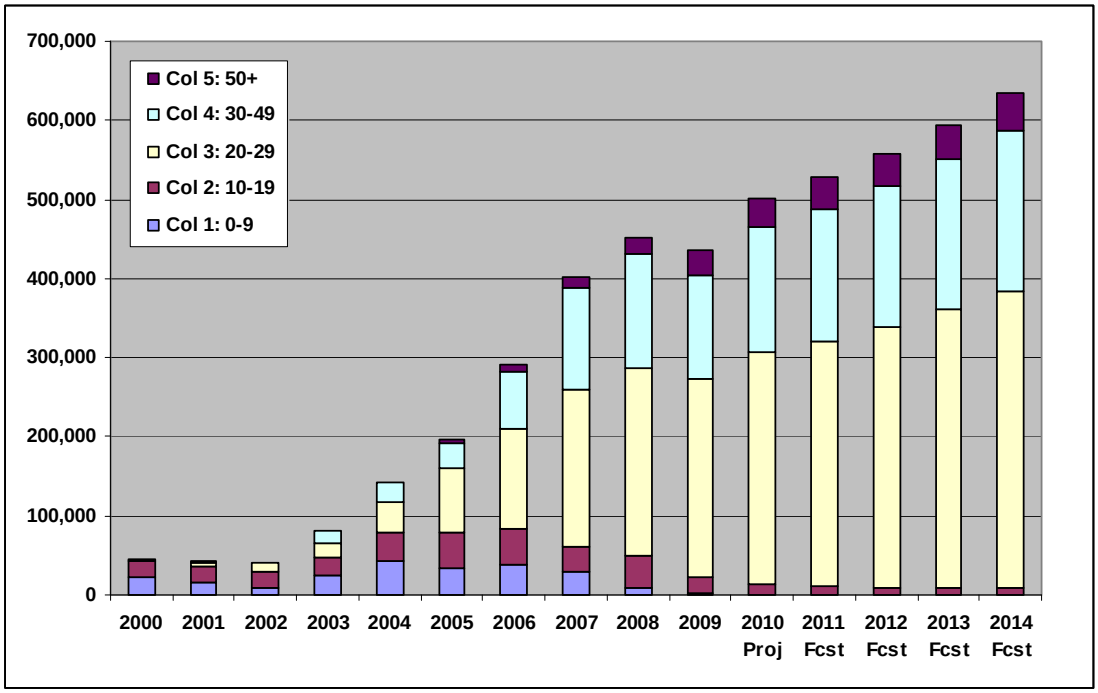
Even though it dropped during the big economic recession in 2009, around 4.6% this shows the demand of colour was quite strong.

InfoSource forecasted a 2-digit increase in 2010, which is 115.2% vs. LY, and then 5-7% growth will be expected from 2010 to 2014.

The market size in 2014 will be around 26.4% growth compared to 2010, and the 20-29 cpm and 30-49 cpm category will still be the major category, which is over 90% for both categories.

European A3 Colour MFP Forecast

Source: Infosource



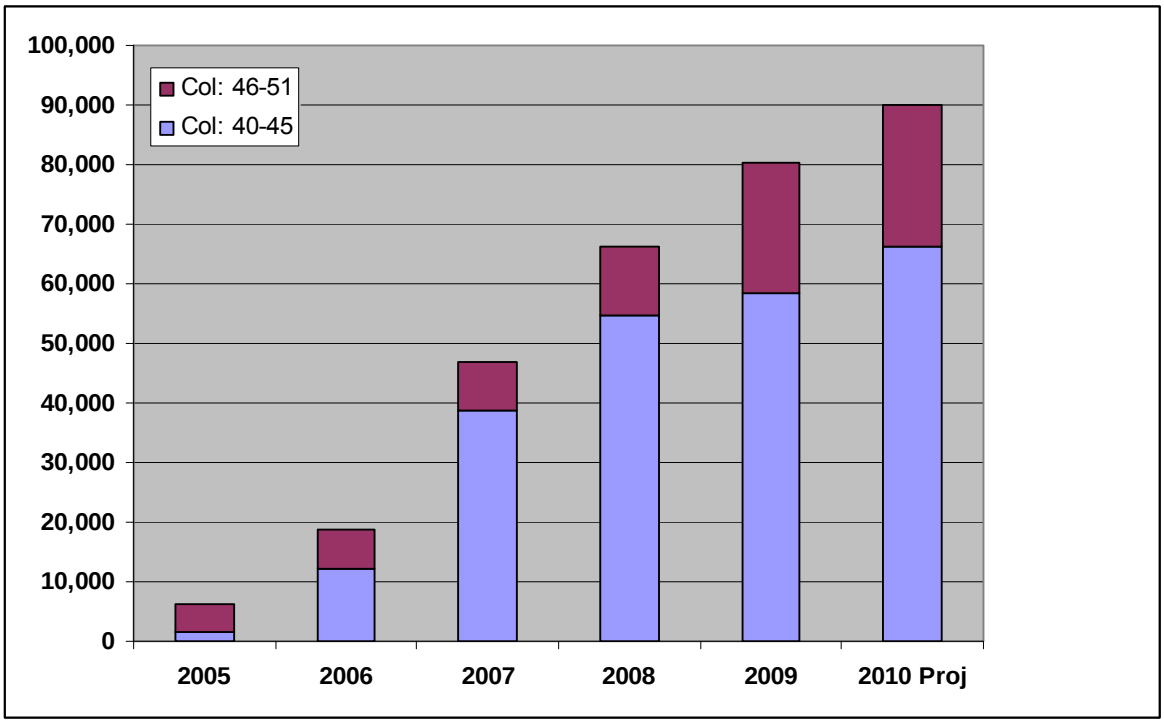
Below is the historical data from 2005 to 2010, projected in 40-45 cpm and 46-51 cpm colour category, which is our new product category.

Until 2008, this category was driven by the 40-45 cpm model which showed a huge expansion compared to 2005 (3213% vs. 2005).

However, since 2009, Infosource data shows a speed shift from the 40-45 cpm to 46-51 cpm category. As projected in 2010, the 46-51 cpm category has doubled in the market from 2008 although 40-45 cpm is 121.4% vs. 2008.

European A3 Colour MFP by category

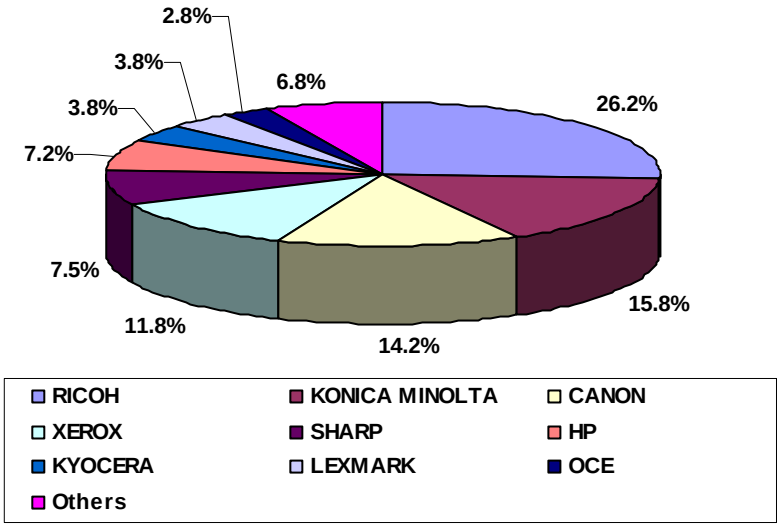
Source: Infosource



The Competition

The chart below shows the market share by brand in 2010 projected by Infosource in the 40-51 cpm category, A3 colour MFP, which is the market for MX-5112N / MX-4112N.

European Market Share by brand



Source: Infosource

This category is shared by 4 brands with a 2-digit market share.
Ricoh has 1st position with 26.2% and Konica Minolta has 2nd position with 15.8%, Canon has 14.2% in 3rd place followed in 4th place with Xerox. This positioning is exactly the same for the 25-36 cpm category.

Ricoh has 2 good models in this category, which are the MPC4000 (40 cpm) and MPC5000 (50 cpm). Since Ricoh launched their current colour line-up, they have been quite successful in the colour category with good features and aggressive pricing. From the end of last year Ricoh have refreshed their line-up with improved speed; MPC3001/C3501/C4501/C5501.

Canon is now heavily promoting their new colour iR-Advance series. 2 iR-Advance models are placed in a good 4th and 5th ranking;

Konica Minolta also has 1 model which is the 45 cpm, but is ranked 2nd. The C552 is also ranked due to colour speed, but this model is for high-end departmental.

European A3 Colour Market Share by model

Brand	Model	Units	Share
RICOH	Aficio MP C4000 AD	13,666	15.2%
KONICA M	bizhub C452	9,906	11.0%
RICOH	Aficio MP C5000 AD	7,277	8.1%
CANON	iR Advance C 5045i	6,514	7.2%
CANON	iR Advance C 5051i	4,204	4.7%
HP	CLJ CM 6040 MFP	4,182	4.6%
LEXMARK	X 945 E	3,415	3.8%
XEROX	WorkCentre 7346	3,013	3.3%
KONICA M	bizhub C552	2,910	3.2%
SHARP	MX-4100 N	2,695	3.0%
Others		32,342	35.9%
Total		**90,124**	**100.0%**

Source: Infosource

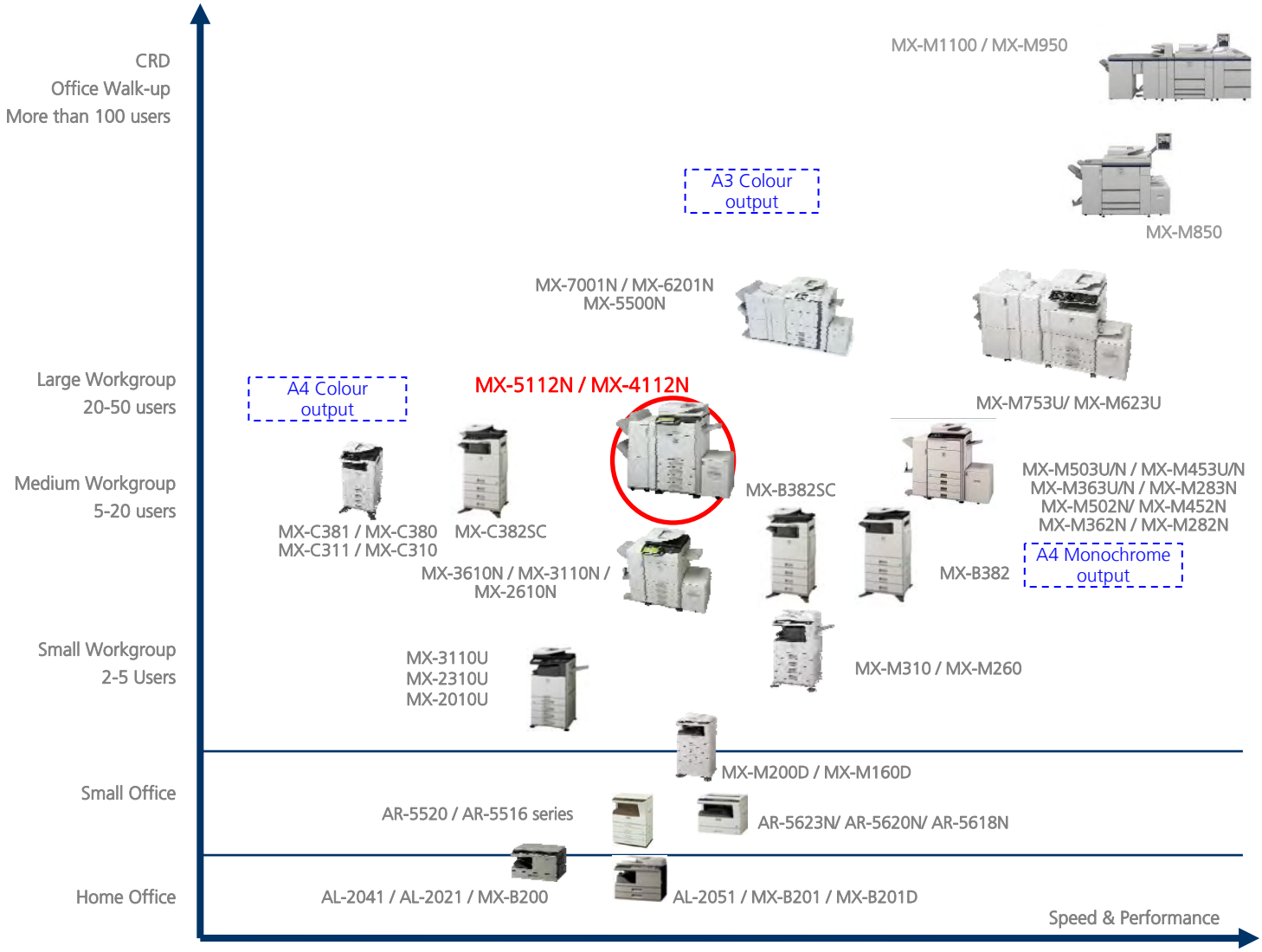
As a summary, this market is strongly increasing with many manufacturers, but we can still see the market expanding year by year.

Sharp offers 4 good colour machines, which are the MX-4100N/4101N/5000N/5001N, but there is still a lot more room to increase our market share from competitors.

The new Sharp colour MFPs, MX-5112N / MX-4112N, have great features and the best image quality; this is the Sharp solution to attack this category to expand our business.

Product Positioning

■ Product Range Positioning



Recommended MCV

Speed	Model	Life	Maximum Monthly Volume
Black & White: 51 ppm Colour: 51 ppm	MX-5112N	1,800K or 5 years	B/W 150K / Colour 50K
Black & White: 41 ppm Colour: 41 ppm	MX-4112N		

Machine Life

The Machine Life represents the product design life for a machine that has used genuine Sharp supplies and has been serviced at the preventative maintenance schedule by fully experienced technicians. It is intended for planning purposes only due to the influence on the life of the product by external sources such as environment, customer handling, copy/print media used and geographical location.

Maximum Monthly Volume

The Maximum Monthly Volume indicates the greatest volume the copier/printer can handle, when work patterns demand. Continual copying/printing at the maximum level can result in reduced performance and a shorter overall life.

■ Product Overview

Highly Productive Printing & Copying
at 51 / 41 ppm/cpm in Colour & B/W

New User Interface
10.1" Touch-Screen Colour LCD
tilts to 3 different angles

DSPF/ RSPF (Option)

Full Colour Network Scanning
with increased scan performance

Web Browsing Option
access to Internet from MFP panel

Enhanced Image Quality
with new developer and toner

Sharp OSA 4.0 (Option)
Connection to Sharp OSA applications outside the firewall

Multi-layered Security Solutions
including new data protection features

Remote Access Front Panel

Document Filing
160 GB Hard Drive

Finishing Options
Incl. 1k/4k saddle stitch finisher, inner finisher, and 4k finisher

Environmentally Friendly
Reduced TEC value, lower warm up time, enhanced Auto Power Shut off mode, Eco mode

Flexible Paper Capacity with easy-grip drawer handles
1,100 – 5,600 sheets

■ Comparison between MX-5000N/01N / MX-4100N/01N Vs MX-5112N / MX-4112N

			MX-5000N/01N	MX-4100N/01N	MX-5112N	MX-4112N
Exterior design						
Integrated keyboard			Fixed onto front of MFP			
LCD Panel			Full colour, 8.5 inch W-VGA (800 x 480)		Full colour, 10.1 inch W-SVGA (1,024 x 600)	
New user interface			No		Yes	
Tilt structure			No		Yes	
Colour variation			6 colours (Default: Black)		7 colours including universal design (Default: Green)	
Universal handle			No		Yes	
USB			Front or Rear (exclusive)		Front and/or Rear (simultaneously)	
Dimensions (WxDxH)			MX-5000N/4100N: 645 x 695 x 950 mm MX-5001N/4101N: 645 x 695 x 960 mm		RSPF: 643 x 761 x 952 mm DSPF: 643 x 761 x 966 mm	
Weight (approx.)			MX-5000N/4100N: 114 kg MX-5001N/4101N: 123 kg		119 kg (RSPF) 127 kg (DSPF)	118 kg (RSPF) 126 kg (DSPF)
Function						
	Copy		Std			
	Network Printer		Std			
	Printer Language	Std	PCL6/5c		PCL6	
		Opt	PS3, XPS			
	Network Colour Scan		Std			
	Fax		Opt (MX-FXX2)		Opt (MX-FX11)	
	Document Filing		Std			
	Sharp OSA		Opt Ver 2.0, 3.0, 3.2, 3.5		Opt Ver 2.0, 3.0, 3.2, 3.5, 4.0	
Copy/Print Speed (Platen)			Colour: 50/41 cpm/ppm B/W: 50/41 cpm/ppm		Colour: 51/41 cpm/ppm B/W: 51/41 cpm/ppm	
Document feeder speed (B/W/ Col)	Copy	RSPF	1-sided: 50 opm/ 36 opm 2-sided: 16 opm/ 14 opm		1-sided: 51 opm/ 51 opm 2-sided: 20 opm/ 20 opm	
		DSPF	1-sided: 70 opm/ 41 opm 2-sided: 50 opm/ 41 opm		1-sided: 75 opm/ 51 opm 2-sided: 75 opm/ 51 opm	
	Scanner	RSPF	1-sided: 50 opm/ 50 opm 2-sided: 16 opm/ 16 opm		1-sided: 51 opm/ 51 opm 2-sided: 20 opm/ 20 opm	
		DSPF	1-sided: 70 opm/ 70 opm 2-sided: 70 opm/ 70 opm		1-sided: 75 opm/ 75 opm 2-sided: 75 opm/ 75 opm	
Paper capacity	Std		1,100 (2 x 500-sheet + 100-sheet multi-bypass)			
	Max		5,600 (4 x 500-sheet + 3,500-sheet + 100-sheet multi-bypass)			
Paper weight	Tray/ Duplex		60 – 209 g/m^2		60 – 220 g/m^2	
	Bypass		55 – 256 g/m^2			
Warm-up time			140 sec or less	120 sec or less	34 sec	30 sec
First Copy Time (Platen)			B/W: 4.1 sec/ Colour: 5.9 sec	B/W: 4.7 sec/ Colour: 6.7 sec	B/W: 4.1 sec/ Colour: 5.7 sec	B/W: 4.7 sec/ Colour: 6.7 sec
Resolution	Copy		600 x 600 dpi		9,600 (equivalent) x 600 dpi	
	Printer		1,200 x 1,200 dpi			
Memory			Copier: 512 MB (Std & Max)		Std Copier/Printer (shared) 3 GB	

		MX-5000N/01N	MX-4100N/01N	MX-5112N	MX-4112N	
		Printer: 1.0 GB (Std) – 2 GB (Max.)		Opt Printer 1 GB		
HDD		Std 80 GB		Std 160 GB		
Document filing Capacity	Main and Custom	38 GB, 5,500 pages or 3,000 files		71 GB, 20,000 pages or 3,000 files		
	Quick Folder	12 GB, 1,700 pages or 1,000 files		10 GB, 10,000 pages or 1,000 files		
Environmental-Related Items						
TEC value		13.5 kWh	10.8 kWh	RSPF/DSPF 4.12 kWh	RSPF 3.53 kWh	DSPF 3.55 kWh
Exposure lamp		Xenon		White LED		
Eco scan		No		Yes		
Eco learning		No		Yes		
Power on/off scheduling		No		Yes		
Instant auto power shut-off		No		Yes		
Power management setting		No		Yes		
Sleep mode setting		No		Yes		
Toner save mode		No		Yes (Copy mode: sim setting) (Printer mode: via driver)		
Options (We describe different option only)						
RSPF		Std for MX-5000N/4100N		MX-RP14		
DSPF		Std for MX-5001N/4101N		MX-EF10		
Stand		-		MX-DS15		
Paper pass unit		MX-RBX3		MX-RB11		
Paper drawer		MX-DEX8 ME-DEX9		MX-DE15 MX-DE16		
4k saddle stitch finisher		-		MX-FN18		
Punch module		MX-PNX6A/C/D for MX-FN11		MX-PNX6A/C/D for MX-FN11/FN18		
		MX-PNX1A/C/D for MX-FNX9 MX-PNX5A/C/D for MX-FN10				
PS3 expansion kit		MX-PKX1		MX-PK11		
Enhanced compression kit		MX-EBX3		MX-EB11		
Expansion memory board		MX-SMX3		MX-SM10		
Barcode font kit		AR-PF1		MX-PF10		
Data security kit		MX-FR11/11U		MX-FR33/33U		
Web browsing expansion kit		-		MX-AM10		
Mirroring kit		-		MX-EB12		

Functions- Additional functions only

			MX-5000N/01N / MX-4100N/01N	MX-5112N / MX-4112N
Copy	Zoom		25-400% (25-200% for RSPF/DSPF)	
			No	Supports the magnification calculation function by the mm/inch specification
	Selection colour when 2-colour/single colour mode		7 colours (black/ red/ green/ blue/ cyan/ magenta/ yellow)	15 colours (red/ green/ blue/ cyan/ magenta/ yellow/ orange/ navy /light green/ light blue/aqua marine/ purple/ pink/ yellow green/ beige
	Rotation Copy		Yes	
			No	Support rotated copy on APS/AMS OFF
	Program call/ Registration		Yes (48)	Yes (48, Preset:1) Allowed setting paper type of bypass tray
	Rotate back face 180 deg		1-side to 2-side 2-side to 2-side	1-side to 2-side 2-side to 2-side 2-side to 1-side
	Notification sound of finished copy job		No	Yes (Support by Soft-SW)
	Stop copy when no original		No	Yes (Support by Soft-SW)
Copy-special function	Job build		Yes	Yes Setting change items of each bunch (Number of copies and colour/monochrome setting)
	A3 full bleed		Yes (MX-TRX2, MX-FNX9, or MX-FN10 is required to put the data into A3 wide paper.)	Yes (No option required.) (It is able to combine with various copy special function.)
	Multi-Shot		2-in-1 , 4-in-1	2-in-1, 4-in-1, 8-in-1
				Exclude 1st page
				Pamphlet Copy + Multi Shot (2-in-1, 4-in-1 only)
	Original count		Yes (Document feeder only)	Yes (Both Document feeder and OC)
	Custom Image	Stamp	No	Yes
		Watermark	No	Yes
	Multi-page enlargement		Yes	Yes (from A type to B type B type to A type)
	Blank page skip		No	Yes (Both Document feeder and OC)
	Repeat layout		No (Photo repeat only)	Yes (Indeterminate size support)
	Book divide		No	Yes
	Position image		No	Yes

			MX-5000N/01N / MX-4100N/01N	MX-5112N / MX-4112N
Image Send	Scan only	Supported file format	TIFF, PDF, Encrypted PDF, Compact PDF*, XPS, JPEG** * MX-EBX3 required. ** Colour/Grayscale only	TIFF, PDF, Encrypted PDF, XPS, PDF/A, Compact PDF*, JPEG** * MX-EB11 required. ** Colour/Grayscale only
		Compression method for colour	JPEG, Compact PDF (Opt required)	JPEG, Compact PDF (Opt required), Bk letter emphasis
		One scan multi format	No	Yes
		Resolution	100, 200, 300, 400, 600 dpi	100, 150, 200, 300, 400, 600 dpi
		Drop out colour	No	Yes
		Moire reduction mode	Yes	No
		Sharpness	No	Yes (5 steps)
		Contrast	No	Yes (5 steps)
		Scan to me	No	Yes
		Blank page skip	Yes (Feeder only)	Yes (Support from both Feeder and OC)
		Suppress background	Yes (Colour and Grayscale)	Yes (Colour, Grayscale, and B/W)
	Internet FAX/ Direct SMTP	Fixed size reception	No	Yes (supported by Soft SW)
	Internet FAX/ Direct SMTP/ Fax	Inbound routing	Yes	Yes
		File name setting (Attached TIS information)	No	Yes
		Destinations	E-mail, FTP, SMB, Desktop	E-mail, FTP, SMB, Desktop, FAX, Internet FAX
		Alternative mode for destination error	No	Yes
		Easy destination switching	No	Yes
		Preview	No	Yes
		Forward	No	Yes
		Filing	No	Yes
		Registered to junk FAX	No	Yes
		Output only specified FAX number	No	Yes
		Timer output	No	Yes
	Fax	Support digital network net	No	Yes
	Long original transmission		Up to 1,000 mm (In the case of I-Fax: 600 dpi, up to 800 mm)	Up to 1,000 mm
	Address setting- Direct address setting mode		Email, Internet Fax, FAX	Email, Internet Fax, FAX, SMB
	Resend		Call up latest 8 addresses sent or order of transmission frequency as a single destination	Call up latest 50 addresses sent or order of transmission frequency as a single destination
			Email/FTP/SMB	Email/FTP/SMB/Desktop/ Broadcast

		MX-5000N/01N / MX-4100N/01N	MX-5112N / MX-4112N
	Memory transmission	94 destinations	100 destinations
	Book divide	No	Yes
	Deletion of transmission record	No	Yes
	Deletion address from group which has already registered	No	Yes
	Alternative reception number	No	100 (total of Internet Fax and Fax)
Address book	Number of one-touch key registration	999	2,000
	Number of group key registration of direct entry	5,000	6,000
	Address book registration from resend screen	No	Yes
	My address	No	Yes
	Mode fixed display	No	Yes
PC-Fax/ PC-iFax	Compression method	MH/ MMR/ JBIG	MH/ MMR
	Create cover sheet	Yes	Yes (Direct address entry also supported.)
	Timer	No	Yes
	Connection with MFP address book	No	Yes
Print	Direct print	No	Yes (4-bit support)
	Feeding tray setting	No	Yes
	Disabling setting of USB/SMB direct printing	No	Yes
	N-Up print	No	Yes
	Output resolution	No	Yes
	Sharpness	No	Yes
	Filing	No	Yes
	Control Image Profile	No	Yes
	ICC Profile	Gamma 1.6, 1.8, 2.0, 2.2, and custom	Gamma 1.6, 1.8, 2.0, 2.2, 2.6, 3.0, and custom
	A3 wide pamphlet	No	Yes*
	Layout print: N-up w/o 1st Page	No	Yes
	Layout print: Repeat print	No	Yes
	100% N-up	No	Yes
	Job cancel at auto job control review	No	Yes
	A0 & A1 fit page	No	Yes
	Page interleave	No	Yes
	Use driver to render JPEGs	No	Yes
	Print Position	No	Yes
	N-up + Pamphlet style	No	Yes
	Print Policy	No	Yes (PCL only)
	Always use user authentication	No	Yes (PCL only)
	Alwayse use retention	No	Yes (PCL only)
	RET support	No	Yes
	Trapping	No	Yes
	Sharpness	No	Yes
Document Filing	Combine file	No	Yes (up to 2 files)
	Confidential setting-File passpassword	Up to 8 digit numbers	Up to 32 digit numbers
	Single/ 2-colour print at the time of resend	No	Yes
	Selection of multiple files	No	Yes (print/delete/move)

		MX-5000N/01N / MX-4100N/01N	MX-5112N / MX-4112N
	Preview for print data	1st page only	All pages
Document Handling	Print and Send	No	Yes
	Create PDF for PC browsing	No	Yes
	Store PC's application file	No	Yes
Advanced Preview (Copy/Image Send/ Document Filing (Scan to HDD, Scan to external memory device only)		No	Yes
	Delete	No	Yes
	Move	No	Yes
	Rotate	No	Yes
	Erase specified range	No	Yes
	Chapter Inserts	No	Yes
	Page Inserts	No	Yes
Authentication Security	Switching internal authentication from external authentication when service crashes. (including recover)	No	Yes
	Number of Authority groups-Preset group	3	5
	User registration items	User name, Search character, Index, Login name, Password, My folder, E-mail address, IC card ID, Authentication setting, Page limit group, Favourite operation group	User name, Search character, Index, Login name, Password, My folder, E-mail address, IC card ID, Authentication setting, Page limit group, Favourite operation group Organisation Code
	Initialization of personal information and internal data	No	Yes
	Hidden pattern copy/ print	No	Yes
	Tracking information print	No	Yes
Other	e-manual display on the operation panel	No	Yes
	Mirroring	No	Yes

*Available later.

Key Selling Points

■ Intuitive User Interface

Sharp is the first MFP manufacturer to offer a 10.1" large LCD panel with a new cutting-edge user interface with 'finger-swipe' touch control. The panel has no hard keys, other than power, power save, and home button. Its intuitive design and flick and swipe touch functionality makes it very easy to use, just like smart phones and tablet PCs, and offers wider flexibility. The users can customise the home screen to his/her own preference and the large screen makes it easier to read text and access applications, as well as the Web.

Home Screen

MX-5112N / MX-4112N have a Home screen with a choice of six different patterns. Basically the screen has two areas. One is scroll area that displays selection icons for basic mode and the other is fixed area that displays system-related icons. Users can change the home screen display including whether they show the fixed area or not.

No.	Fixed area exists or not	Number of icons on the scroll area	Icon size on the scroll area	Maximum number of scroll screens
Pattern 1	Yes	4	160 x 160px	15
Pattern 2	No	8	160 x 160px	8
Pattern 3	Yes	8	100 x 100px	8
Pattern 4	No	12	100 x 100px	5
Pattern 5 (Default)	Yes	12	86 x 86px	5
Pattern 6	No	18	86 x 86px	3

Note: This pattern can be changed on web page only.

Legibility of Characters

The MX-5112N / MX-4112N's UI design has greater legibility of characters which makes it easier to read small fonts.

1. Adopt scalable fonts: smooth and bold font design.
2. Enlarge basic text size: its size is 15% larger than previous models.
3. Prepare large character mode: its text size is 30% larger than normal mode.

Basic Operation Panel Layout

Our conventional models have various hard keys: power source, energy saving, home, copy start (both B/W and colour), system settings, job status, and 10 keys. MX-5112N / MX-4112N feature only three hard keys, power source, energy saving, and home keys. Except for the above keys, the MX-5112N / MX-4112N feature various soft keys, which give the following advantages:

1. Preventing potential mistakes in operation.
2. The intuitive panel makes it easier to use and navigate.
3. Changes the place of keys/ higher priority features.

In addition, the main mode of MX-5112N / MX-4112N has changed from conventional models instead of "Image Send", "Fax" and "Scan to Email" modes are prepared.

Favourite

Users can register or edit frequently used features as their favourite from 'my favourite' menu or each feature screen.

Action Panel

The action panel appears on the right side of the basic screen of each feature. The panel displays the link button and/or message related to the current displayed screen by proposing next operation. It allows users to choose the desired feature quickly.

Program

Although the program registration method is different between Copy and Image Send, the MX-5112N / MX-4112N's job program in the case of both Copy and Image Send are the same. Users can register the job program easier than before. The maximum number of job programs that users can register is 48 plus 1 for preset. In addition, users easily call the registered program by pressing the "Call Program" displayed on the action panel/ home screen. They can also register the paper type for bypass tray.

Intuitive Operation

Not only touching the soft key on the operation panel, the MX-5112N / MX-4112N adopt the flick operation for easy and intuitive operation - like smart phones.

Gesture	Image	Operation	Example of Use
Long touch		Continue touching a certain period of time.	Balloon display to support the operation.
Tap		Hit the screen with finger quickly and lightly.	Operation for settlement.
Flick		Slide finger on the screen with touching.	Scrolls the page such as address book on the list or turns over pages
Slide		Move finger, with touching the screen.	For scroll bar.
Drag		Put finger on the screen a certain period of time, and then moves finger.	Page edit.

Advanced Preview Feature

Users can easily check and edit the scanned image on the operation panel the same as conventional models. MX-5112N / MX-4112N feature output preview mode, 1 Page display, thumbnail display, and 3D display, and edit mode. They can then change the display mode in accordance with the purpose. After previewing the scanned images, users basically change the setting of features.

Output preview mode

1 page display

3D display: 1-side

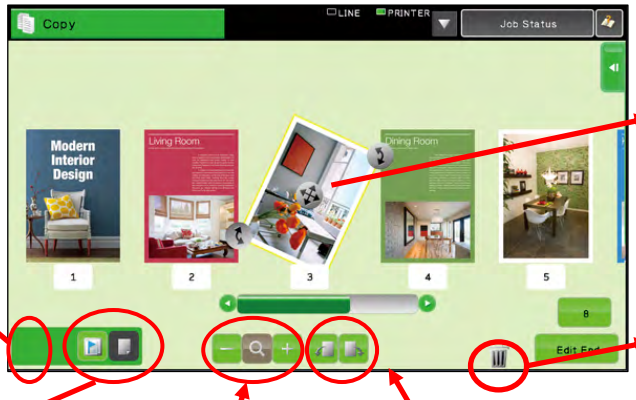
3D display: 2-side

Thumbnail display

Edit mode

Edit Mode

Users can edit the scanned images, for example, they can rotate each sheet, change the order of scanned sheet, insert a blank page, or delete unnecessary pages.



3rd page is rotated. (Note: Copy: by 180 degrees, Scan: by 90 degrees, Fax: cannot rotate.)

When users remove page (s), "Undo" or "Redo" button appears to undo/redo the operation.

Users can drag the unnecessary page(s) into this waste bin

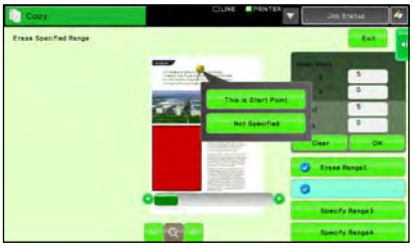
Left: Chapter Inserts
Right: Insert Blank Page

Each page can be reduced or enlarged.

All displayed pages are rotated counter clockwise or clockwise.
Note: This mode CANNOT change the print direction.

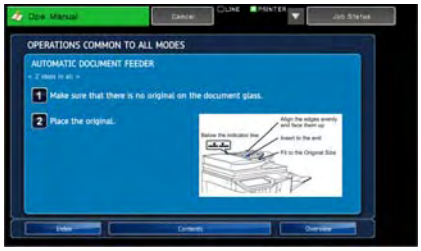
Erase Specified Range

Additionally, once the user checks the preview they can specify four areas that they want to delete.



Manual Display on Operation Panel

MX-5112N / MX-4112N include the manual on its HDD. When users require help with any of the functions they can check the user manual (help) by displaying it on the operation panel.


OPERATIONS COMMON TO ALL MODES
AUTOMATIC DOCUMENT FEEDER
1 Make sure that there is no original on the document glass.
2 Place the original.

Web Browsing Expansion Kit

With the optional web browsing expansion kit installed, users can browse the Internet on the operation panel and print various contents including brochure, ticket, coupon, and/or map.

Note: Printing of PDF data requires optional PS3 expansion kit (MX-PK11).

Screen when Using Web Browsing Expansion Kit

■ User-Friendly Design

Tilt Type Control Panel

The new panel is tilt-able with 3 different positions to choose from. Users, especially wheel-chaired users, can easily adjust the control panel to improve visibility.

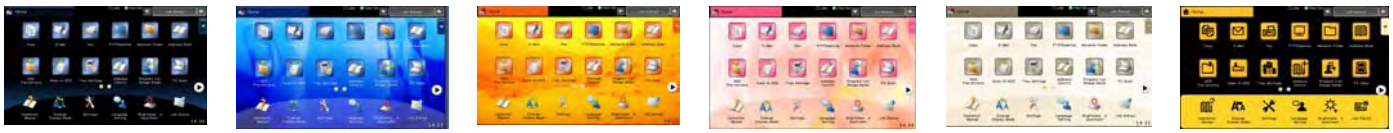
Note: The third position is not available with MX-FNX9, MX-FN10, MX-FN11, or MX-FN18 installed.

Universal Handle

MX-5112N / MX-4112N have universal handles on the paper drawers. Users can easily grip and pull out the paper drawer from both top and bottom of the paper drawer handle.

Colour Variation

MX-5112N / MX-4112N feature seven colours including the universal design colour of operation panels. Users can easily choose the colour they want. The default colour is green.



■ Sharp OSA

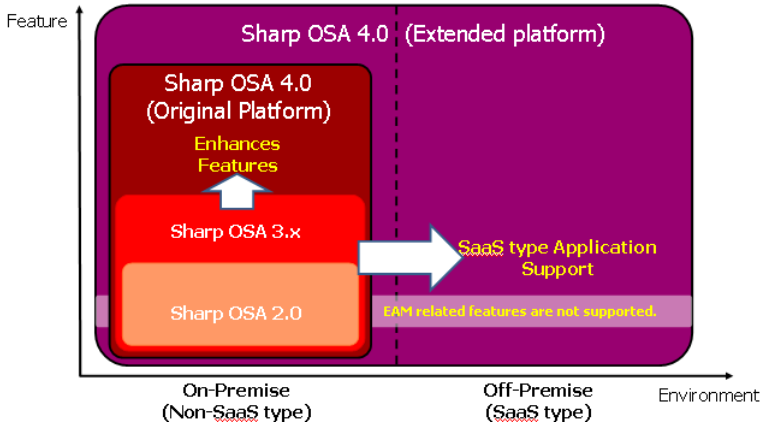
Sharp OSA makes it possible for third-party software developers to create custom applications that link the MFP to software programs on a server or PC, giving you the ability to create your own solutions specific to your own needs. The MX-5112N / MX-4112N are compatible with Sharp OSA versions 2.0, 3.0, 3.2, 3.5, and 4.0 which make it even easier to customise your MFP and integrate it into your office workflow.

Sharp OSA 4.0

MX-5112N / MX-4112N support for the next generation Sharp OSA 4.0*. Sharp OSA 4.0 differs from earlier versions in that it can connect to server applications outside the firewall. This is commonly known as connecting to the 'Cloud' or to 'Software as a Service' (SaaS) type applications.

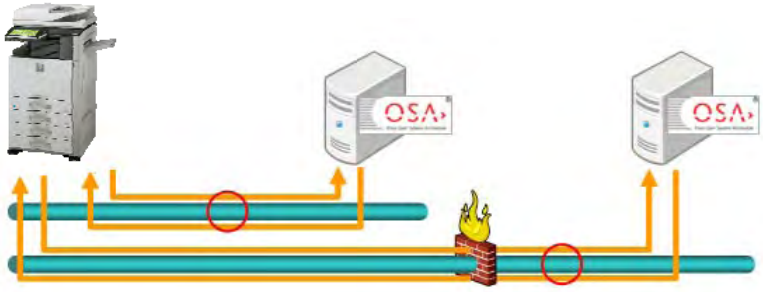
Sharp OSA 4.0 offers two types of platforms, conventional type platform (original platform), which does NOT support SaaS type application, and extended platform, which supports SaaS type application.

*Connectors or integrations will be available at a later date.



Extended Platform

Allows Sharp OSA server to be placed outside of the Firewall in addition to inside of the Firewall.
-> Sharp OSA applications can be provided as SaaS type.



Benefits for Customers

- Customers do not need to install server PC and software.
  -> Reduces cost for IT management.
- Large-scale initial investment is not required.
- SaaS type application can communicate through firewall.
  -> Customers can construct more flexible system.

The above benefits can expand solution sales with Sharp OSA for small and medium-sized companies that have strong demands for SaaS type applications.

■ Sharp OSA Network Scanner Tool

Sharp OSA Network Scanner Tool is the software available as an option for the MX-5112N / MX-4112N. As well as the license option, it requires the Sharp OSA Application Communication Module, MX-AMX2.

The difference between NST (network scanner tool) and Sharp OSA Network Scanner Tool

		NST (Chargeable)	Sharp OSA Network Scanner Tool (Chargeable)
Directly selectable sending folder/data from Operation Panel		No	Yes
Required to register My PC address for all MFP		Required	Not required
Max. number of user registration in one MFP		Unlimited[*1]	Unlimited
Feature	Meta data handling (MX-AMX1: required or not)	No (MX-AMX1 required)	Yes
	PULL print (PDF/XPS/TIFF/JPEG)[*2]	No	Yes
	Create the searchable PDF	Yes	Yes
	Specify PDF/A option	No	Yes
	Automatically document title recognition in image file -> renaming	No	Yes
	Batches of digital files are divided automatically with a one time setting.	No	Yes
	Easy to create digital data and automatic classification	No	Yes
	Collect index data from same sheets	No	Yes
	Easy search for desktop files to pull print	No	Yes
	Only storage address of scanning data is sent by e-mail	No	Yes
	Specify the batch processing option (corresponding to the ability of the CPU)	No	Yes

[*1] Depends on the memory size inside of MFP.

[*2] In the case of PDF, optional PS3 expansion kit (MX-PK11) is required. In the case of XPS, optional XPS expansion kit (MX-PUX1) and expansion memory board (MX-SM10) are required.

■ Main Features

1. To provide MFP's further convenient and improved scanning

- Browse folders on user's PC and scan directly to the desired folder.
- Create searchable PDFs.
- Rename files automatically by title words in document.
- Divide batches of document by a separator sheet.(A)
- Collect index data automatically from forms.
- File automatically based on image matching (B)

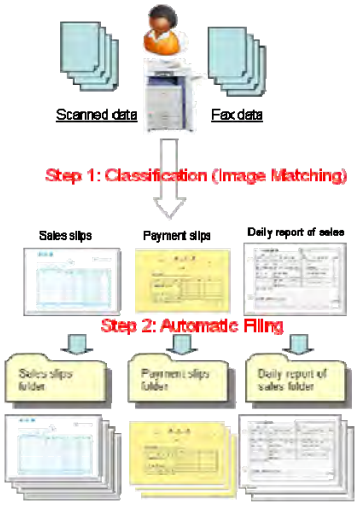
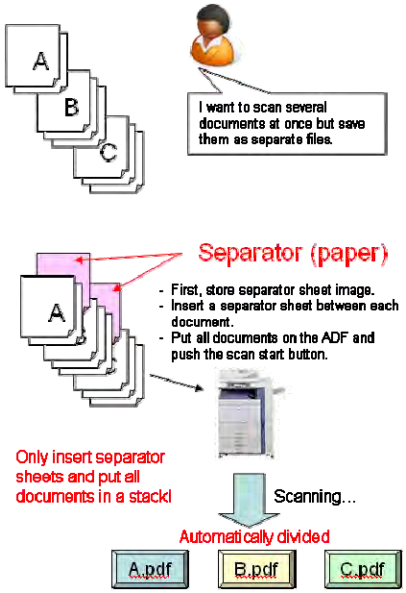


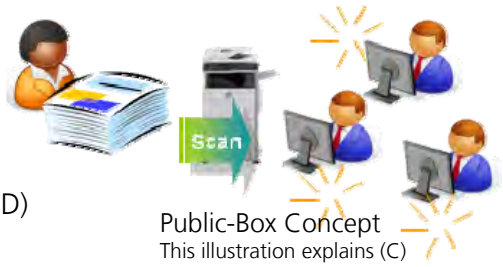
Image Matching with Automatic Document Filing
This illustration explains (B)


A
B
C
I want to scan several documents at once but save them as separate files.
Separator (paper)
- First, store separator sheet image.
- Insert a separator sheet between each document.
- Put all documents on the ADF and push the scan start button.
Only insert separator sheets and put all documents in a stack!
Scanning...
Automatically divided
A.pdf
B.pdf
C.pdf

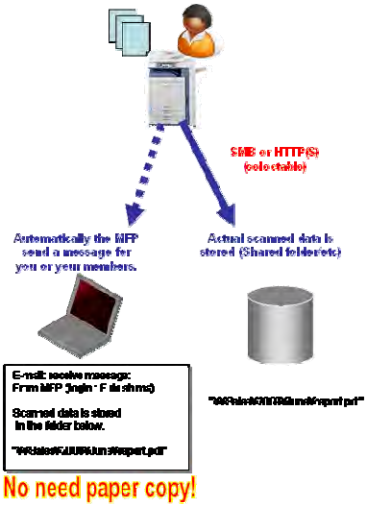
Scan Separator
This illustration explains (A).

2. To reduce the paper copy's flow and paper

- Scan to another user's public box to share files (C)
- Choose a file for printing
- Preview scan and print files
- Select common printing and scanning options on one easy-to-use screen
- E-mail a link to the scanned data, minimizing e-mail file sizes(D)



Public-Box Concept
This illustration explains (C)


SMB or HTTP(S)
(selectable)
Automatically the MFP send a message for you or your members.
Actual scanned data is stored (Shared folder/etc)
Scanned data is stored in the folder below.
No need paper copy!

Only storage address of scanning data is sent by e-mail
This illustration explains (D)

3. To reduce Office IT work at the time of scanning by using MFP

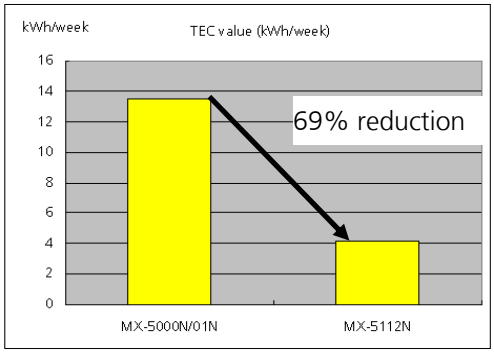
- Central installation of Sharp OSA Network Scanner Tool client on user desktops (push install)
- Client-host synchronisation so profiles are always up-to-date
- Centralised profile storage so users can access their profiles at any MFP

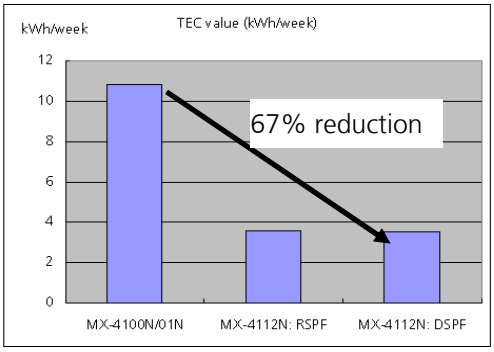
■ Environmentally Friendly

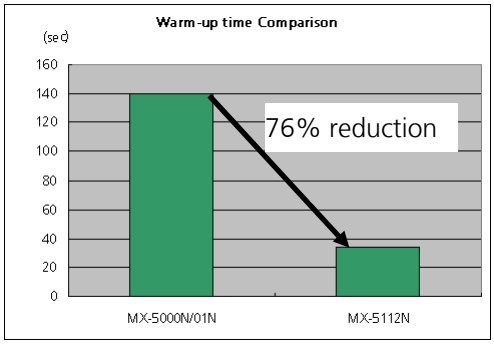
Drastically Reduced TEC Value

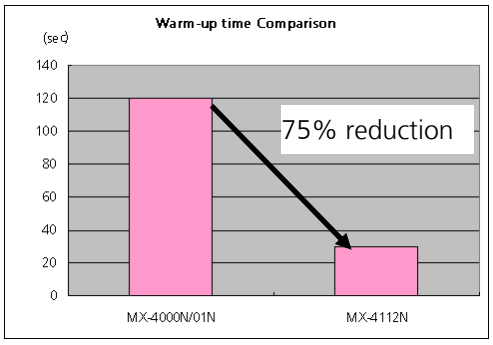
The MX-5112N / MX-4112N adopt various environmental technologies, for example, the newly developed belt fusing unit, the learning feature to reduce power consumption, and the LED lamp. (These are same as the MX-2310U). In addition, the MX-5112N / MX-4112N feature "eco scan" mode, which executes a job by keeping the fuser off when that job does not require the fuser, such as image send or document filing. These technologies result in drastic reduction of the TEC value and warm-up times compared to previous model, MX-5000N/01N / 4100N/01N.

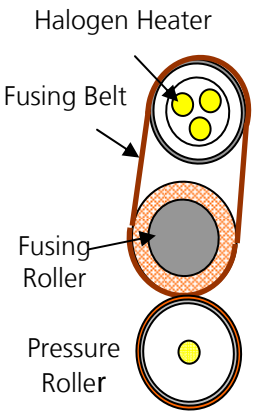
1) TEC value comparison between MX-5000N/01N (13.5 kWh) and MX-4100N/01N (10.8 kWh), and MX-5112N (4.12 kWh), MX-4112N (RSPF: 3.53 kWh/ DSPF: 3.55 kWh)
2) Warm up time comparison between MX-5000N/01N (140 sec) and MX-4100N/01N (120 sec), and MX-5112N (34 sec), and MX-4112N (30 sec).

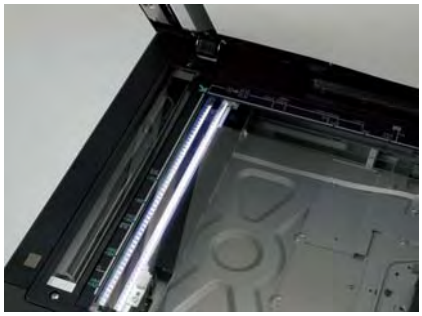












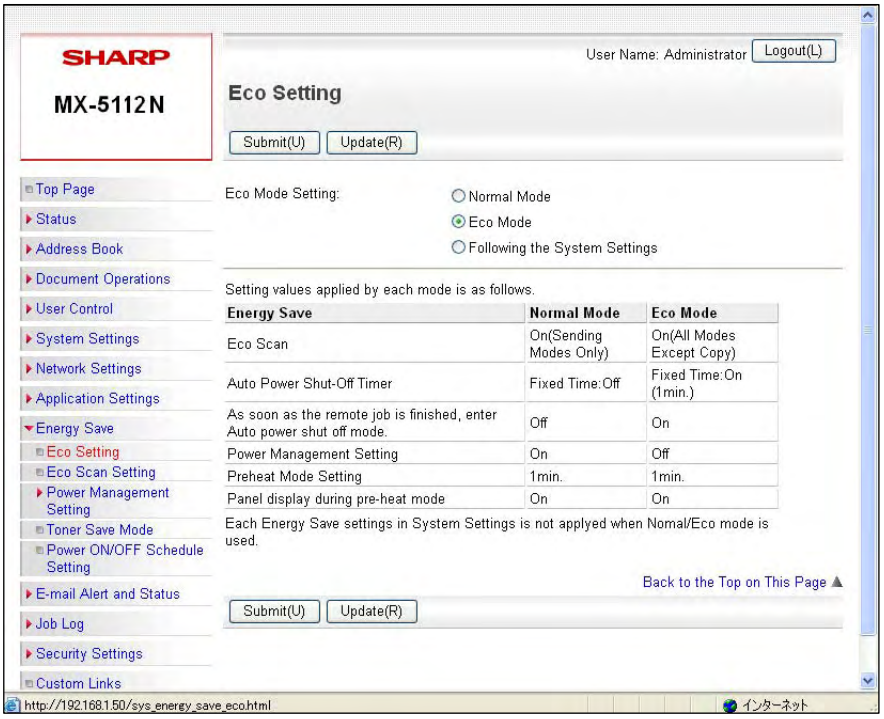
The power consumption of the exposure lamp is drastically reduced by changing it from Xenon to white LED.

Energy Saving Mode

The MX-5112N / MX-4112N can be set to go into power save mode after a set period of inactivity. In addition to this, there is a power-save button which, when pressed, forces the MFP into power save mode immediately.

Eco Mode

The MX-5112N / MX-4112N have an "Eco mode", which can make the energy saving related settings collectively.



Enhanced Auto Power Shut Off

MX-5112N / MX-4112N have an enhanced "Auto Power Shut-off" mode, like the MX-2310U. MFPs can automatically set the auto power shut-off timer in accordance with its machine's usage. Of course, users can also manually set the auto power shut-off timer through the MX-5112N / MX-4112N web page. In addition, when "As soon as the remote job is finished, enter auto power shut off mode" is enabled, "Auto Power Shut-Off" works after print job is completed or fax is received.

Eco Scan Feature

MX-5112N / MX-4112N also support Eco scan feature: jobs not requiring printing such as Image Send or Scan to HDD can be executed with the fuser turned off.

Power On/Off Scheduling

Users or the Administrator can register the schedule so the MX-5112N / MX-4112N are automatically turned on or off. For example, they can set the MFP to be turned on at the start time of work and then turned off during lunch time or at the end of the day. They can set up to three patterns.

Environmental Regulations

- RoHS is a European directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- WEEE – The Waste Electrical and Electronic Equipment regulations is aimed at reducing the amount of waste going to landfill and improving recovery and recycling rates.
- Energy Star is a label for energy efficient products with worldwide recognition. The Energy Star programme was introduced to Europe in 2002 as a voluntary label for computers, monitors, printers, fax machines, scanners, copiers and multifunctional machines. New specifications were introduced in 2007 which ensure that the Energy Star represents only the markets most energy efficient products.
- The official Nordic Ecolabel demonstrates that a product is a good environmental choice. They check that products fulfil certain criteria including power consumption, materials used, emissions and performance properties. The label is usually valid for three years. (As of March 2011, MX-5112N / MX-4112N have not yet been certified with Nordic Ecolabel).

The MX series is designed with the environment in mind and based on Sharp's policy of becoming a totally environmentally friendly company.

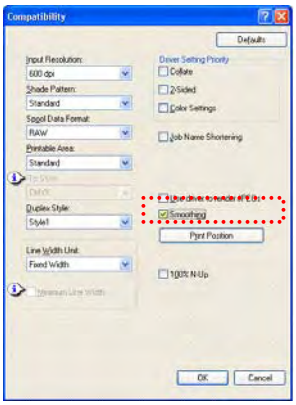
- The MX series has been developed with "Common platform" concept, which utilises common mechanical parts, boards, consumables, software and controllers as much as possible. This fact is important for the overall company's activities such as stock management, production, logistics, technical training, etc. This means less power is required to sustain the company's activities and total energy consumption is reduced, as everything is Sharp.
- The material name and characteristics are mentioned on all plastic parts and cabinet for recycling. Also labels for caution or operation are reduced as much as possible and instead of these messages are now embossed on plastic.

■ Image Quality

■ Copy/Print

Resolution Enhancement Technology (RET)

The MX-5112N / MX-4112N support RET. In the case of Copy, Manual: Text, Map mode, and Text of Copy of Copy mode support RET. In the case of print, users can choose whether they use RET mode or not on the printer driver. (Users can set it by clicking "Advanced" tab -> "Compatibility" button -> "Smoothing" of the printer driver.)



Enhanced Granular Quality

Enhancing granular quality enables copied/printed data to be smoother.

MX-5100N/01N
MX-4000N/01N

MX-5112N
MX-4112N

More Vividly Reproducing Cyan

By changing the toner, the colour reproduction area becomes wide. Therefore, MX-5112N / MX-4112N can copy/print data especially cyan-based colour such as blue and/or green including sky, sea, grass, and/or trees brighter and more vividly.

■ Copy

Suppressing Occurrence of Moire

When reducing and copying the original, the MX-5000N/01N / MX-4100N/01N tend to produce the copy with moiré - because the resolution of the data tends to be low. In this case, the MX-5112N / MX-4112N internally switch the filter to reduce moiré.

Note: Users cannot manually switch the filter.

100 line per inch's colour patch

50% Copy

MX-5000N/01N/ MX-4100N/01N

MX-5112N/ MX-4112N

Note: Moire is an interference pattern created, for example, when two grids are overlaid at an angle, or when they have slightly different mesh sizes.

■ Print

Trapping

Trapping digital files is the process of compensating for its mis-registration on the original by printing small areas of overlapping colour where objects meet. Users can manually execute trapping by checking the "Trapping" box on the Advanced Colour Settings.

Note: The above figures are simulated to show the difference clearly.

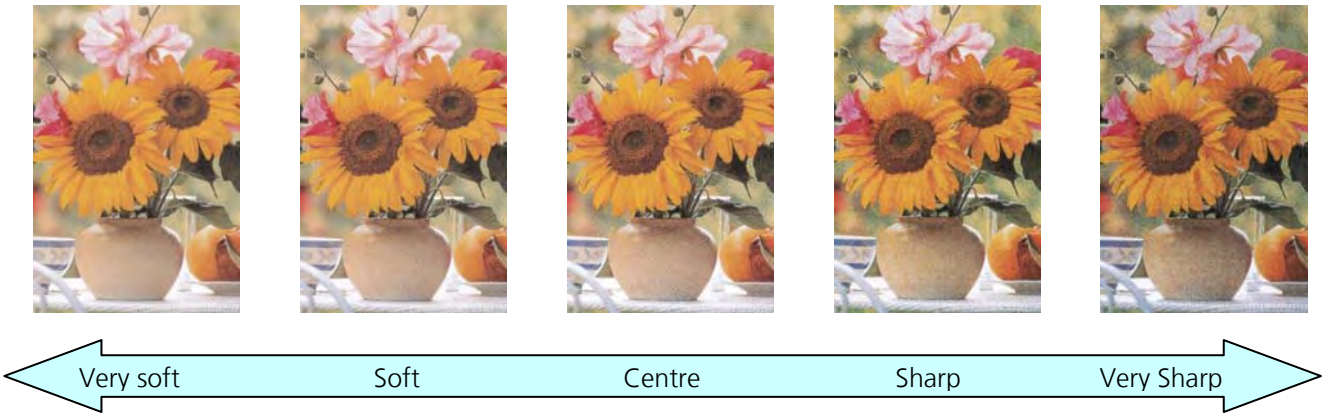
Source Profile

Users can choose Source Profile from six values. The "Gamma 3.0 and Gamma 2.6 are added. Users can use these modes to show the depth of colour.

Gamma 1.6 Gamma 1.8 Gamma 2.0 Gamma 2.2 Gamma 2.6 Gamma 3.0

Sharpness

Users can choose Sharpness from 5 values. When users choose "Very Soft" or "Soft" mode, moiré can be reduced. They can use those modes when there is concern about moiré at the time of printing a scanned image. When they choose "Sharp" or "Very Sharp", texts on the original are clearly reproduced. They can use those modes when they want to clearly display the outline or texts in digital photo.

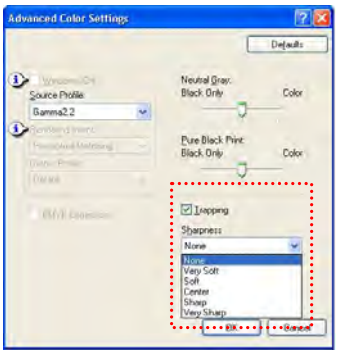


Original Type

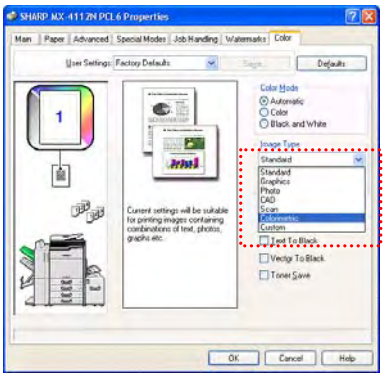
MX-5112N / MX-4112N offer this new feature: Image Type – Custom, in addition to Colorimetric. When users choose Colorimetric, colours of printed data are adjusted to be close to colours of LCD panel. When users choose "Custom", users can choose the profile they prefer.

Note: Administrator only registers one profile.

Trapping and Source File



Sharpness



Original Type- Colorimetric/ Custom

Original Type- Custom (Detailed screen)

Document Filing Data

MX-5112N / MX-4112N offer this new feature: the retention mode (RGB_RIP), suitable when users want to resend/reprint the printed data stored in the MFP's HDD for a long time. Although conventional models can not resend the print data stored in the HDD, the MX-5112N / MX-4112N can do this. In addition, whenever users reprint the printed data stored in the HDD, they can always get the same result, in other words, the colour tone of printed data does not change. We can also say that colour of thumbnail image are expressed with the colour of original image.

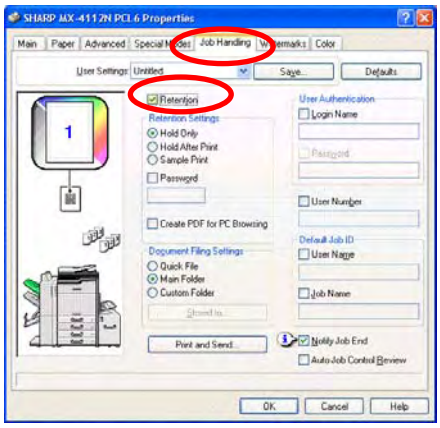
Item	RGB_RIP	CMYK_RIP
Resend	Available	Not available
Colour tone at the time of reprint	Not changed	May change
Colour reproduction of thumbnail image compared to original	Same	May be different

1. Print data (RGB)

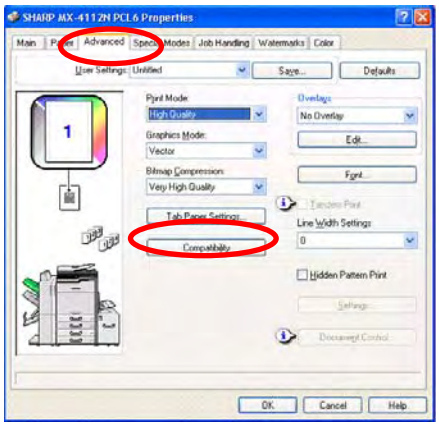
2. MX-5112N / MX-4112N (Web Thumbnail))

3. RGB_RIP (Web Thumbnail)

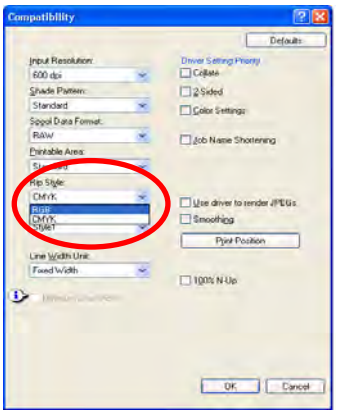
Note: When users change the RIP style into RGB in accordance with the following procedure, the data become resend-able.



(1) Tick "Retention" on the Job Handling tab.



(2) Click "Compatibility" on the Advanced tab.



(3) Change the "Rip Style" from "CMYK" to "RGB".

■ Scan

Enhanced Colour Reproduction

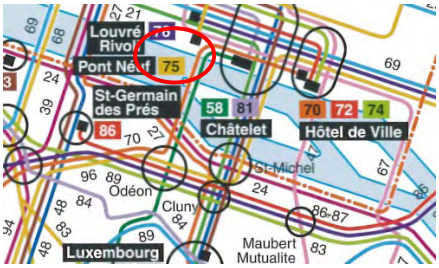
Compared to the MX-5000N/01N / MX-4100N/01N, the MX-5112N / MX-4112N can produce brighter and clearer scanned images than the data produced by MX-5000N/01N / MX-4100N/01N at auto mode, text mode, text/printed photo, or printed photo mode.

MX-5000N/01N / MX-4100N/01N

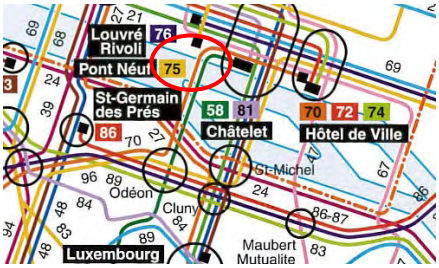
MX-5112N / MX-4112N

Enhanced Legibility of Small Characters

In addition, MX-5112N / MX-4112N can clearly produce small black or colour text on complicated backgrounds at not only colour mode but also at greyscale and B/W mode. Therefore, the text is easy to read.



MX-5000N/01N / MX-4100N/01N



MX-5112N / MX-4112N

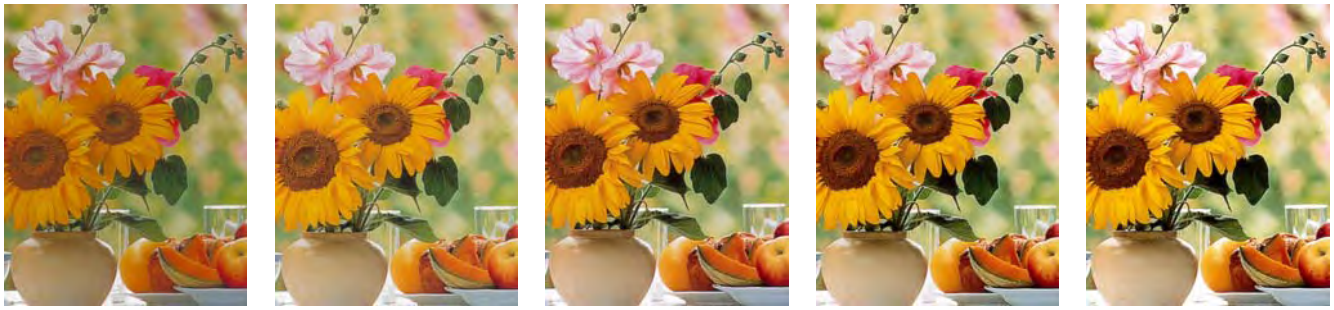
Sharpness / Contrast

MX-5112N / MX-4112N are the models that have the Sharpness / Contrast feature at the time of scanning. Both modes have five levels (1 to 5). Level 3 is same as Sharpness / Contrast "Off". When users choose "Sharpness 1", occurrence of moiré can be reduced. On the other hand, when they choose "Sharpness 5" and/or "Contrast 5", texts on the image are clearly scanned. Users can set Sharpness and Contrast simultaneously.

Sharpness

Sharpness 1 Very soft | Sharpness 2 Soft | Sharpness 3 Centre | Sharpness 4 Sharp | Sharpness 5 Very Sharp

Contrast



Contrast 1 Low | Contrast 2 | Contrast 3 Centre | Contrast 4 | Contrast 5 High

Note: "Sharpness 1" of MX-5112N / MX-4112N are almost same as "Moire Reduction" of conventional models. Therefore, "Moire reduction" is integrated into "Sharpness" from MX-3610N / MX-3110N / MX-2610N.

150 dpi Scanning

MX-5112N / MX-4112N offer 150 dpi scanning, too. 150 dpi can produce small file size, users can read small characters.

5pt We carry a full range of from

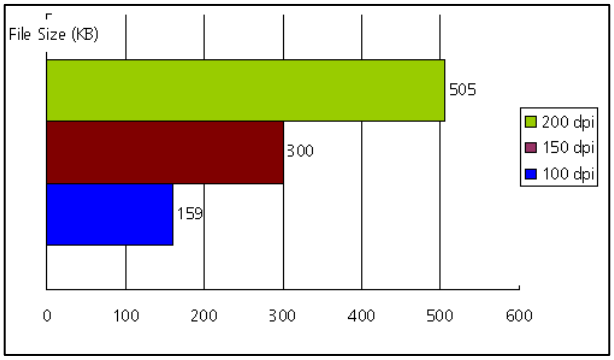
200 dpi

5pt We carry a full range of from

150 dpi

5pt We carry a full range of from

100 dpi



■ High Productivity (specification-related)

■ Copy/Print/Scan Speed

The MX-5112N / MX-4112N's engine speed is 51/41 cpm/ppm for both colour and B/W.

Copying

In the case of 1-sided copy through the RSPF, the machine can read at speeds of up to 51 opm for B/W and colour and in the case of 1-sided copy through the DSPF, the machine can read at speeds of up to 75 opm for B/W and 51 opm for colour.

In the case of 2-sided copy through the RSPF, the machine can read at speeds of up to 20 opm for B/W and colour and in the case of 2-sided copy through the DSPF, the machine can read at speed of up to 75 opm for B/W and 51 opm for colour. This speed is up to 25% faster than the MX-5000N/01N / MX-4100N/01N.

Note: This is just reading speed through the RSPF/DSPF. The actual copy speed is 51/41 cpm for both colour and B/W.

Scanning

In the case of 1-sided scanning through the RSPF, the machine can scan at speeds of up to 51 opm for both B/W and colour and in the case of 1-sided copy through the DSPF, the machine can read at speeds of up to 20 opm for B/W and colour.
In the case of 2-sided scanning through the RSPF, the machine can scan at speeds of up to 20 opm for both B/W and colour and in the case of 2-sided copy through the DSPF, the machine can read at speeds of up to 75 opm for B/W and colour. This speed is up to 20% faster than that of MX-5000N/01N / MX-4100N/01N.

First Copy Time

The first copy out time is just 5.7 seconds for colour and 4.1 seconds for B/W for MX-5112N, 6.7 seconds for colour and 4.7 seconds for B/W for MX-4112N. Combined with a warm up time of 34 seconds for MX-5112N and 30 seconds for MX-4112N, it's evident that everything has been designed with efficiency in mind.

Note: Best achieved time based on A4 copy, long edge feeding from 1st paper drawer, using document glass, when machine is ready without Auto Colour Mode and Auto Colour Selection. May vary depending on machine conditions and operating environment.

Gigabit Ethernet (1000Base-T)

The speed of the network connection has been improved with the addition of Gigabit Ethernet – so your print jobs will reach the MFP faster and your scan jobs will be sent much more quickly.

Direct SMTP

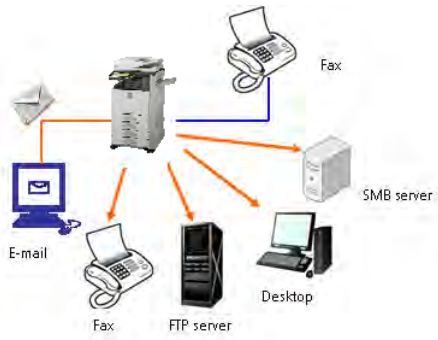
When using Internet Fax, if both the sending and receiving machines are capable of operating by Direct SMTP, the fax can be transmitted without going through the mail server. This eliminates a potential bottle neck, and since the fax is transmitted directly, it takes less time to arrive.

Fax Management

With the advanced Fax management functions of the MX-5112N / MX-4112N, you need never print a fax again.

- Inbound Routing will send faxes directly via email to a specified recipient or send them as Tiff data to servers/PCs, so that only required faxes need to be printed.
- PC-Fax enables documents to be faxed directly from your PC – no need to print them first.

Note: Fax expansion kit (MX-FX11) is required.



Print and Send

The purpose of this feature is to process two or more jobs (Copy/ Image Send/ Document Filing/ Fax/ Internet Fax) by one operation. The following are the combinations that can be set.

Main Mode	Function that can operate simultaneously	Remarks
Copy	Image Send	Yes
	Document Filing	Already supported.
Image Send	Document Filing	Already supported.
Print	Document Filing	Already supported.
	Image Send	Add to the driver. (Direct pull print)

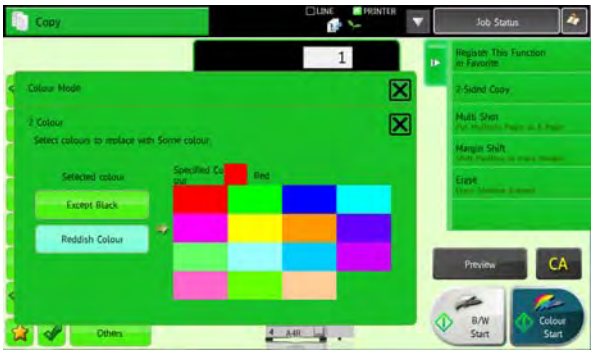
■ High Productivity (function-related)

■ Copy

Single/ 2-Colour Copy (upgraded)

In addition to red (R), green (G), blue (B), cyan (C), magenta (M), and yellow (Y), users can select nine more colours (orange, navy, light green, light blue, aquamarine, purple, pink, yellow green, and beige) when they execute single or 2-colour copy. In the case of 2-colour mode, they can choose not only extraction of red colour but also extraction of chromatic colour excluding black.

2-Colour Copy Mode



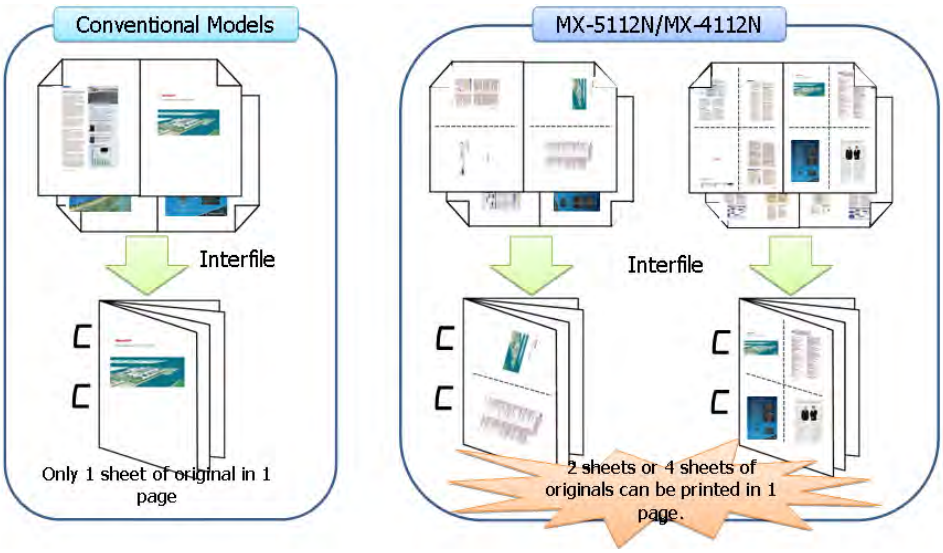
Single Copy Mode

Custom Image

Users cannot only use custom stamp, but also they can prepare stamps as they like. They can register two types of user stamp; stamp image and watermark from the PC to MFP's designated folder of HDD.

Multi Shot (2-in-1, or 4-in-1) + Pamphlet Copy

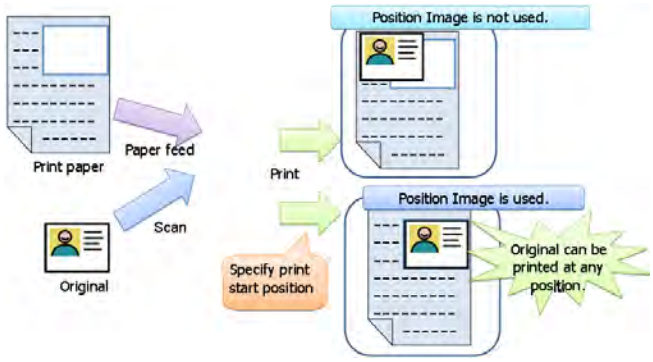
Two sheets or four sheets of original can be printed on one page. This enables reduction of paper waste when outputting multiple pages of document.


Conventional Models
Interfile
Only 1 sheet of original in 1 page
MX-5112N/MX-4112N
Interfile
2 sheets or 4 sheets of originals can be printed in 1 page.

Note: When users want to prepare saddle-stitched pamphlet, they have to install the 1k saddle stitch finisher (MX-FN10) or 4k saddle stitch finisher (MX-FN18), and paper pass unit (MX-RB10)

Position Image

Users can copy a scanned image such as a scanned photo/graph into a specified place on a printed document by specifying the amount of shift (X-direction and Y-direction). Of course, users can check the image whether the specified image is correctly placed or not by using Preview screen or Sample copy feature. This is useful when users want to integrate the original such as photo or graph into the printed paper.



Zoom

Users can reduce/enlarge the original data by automatically calculating the appropriate ratio on the MFP. Users only specify the original size and size of result. This feature improves job efficiency and reduces waste of paper.

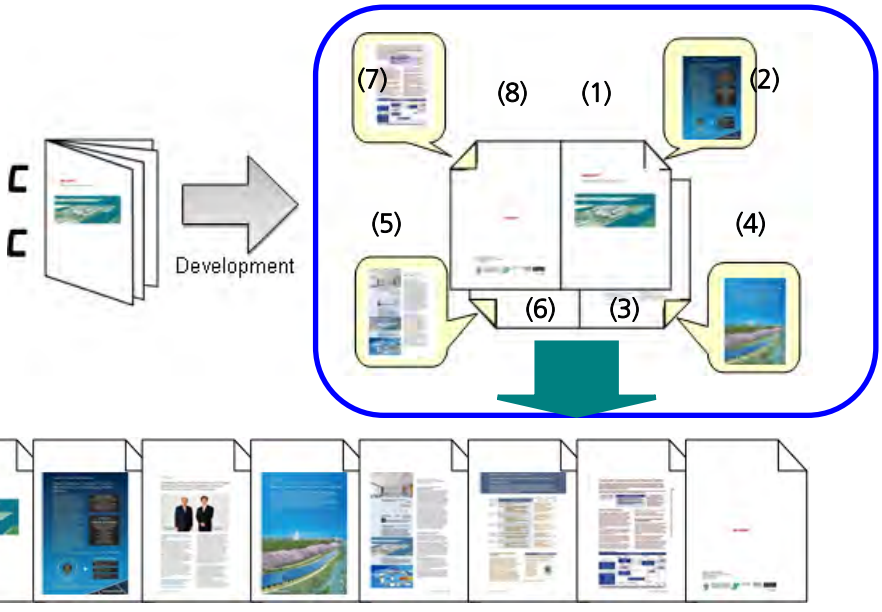
Repeat Layout

MX-5112N / MX-4112N enhance the current photo repeat feature. In addition to photos, they can repeat and print images repeatedly in one sheet. There are three modes, auto, fixed repeat, and photo repeat.

Book Divide (Copy/Scan)

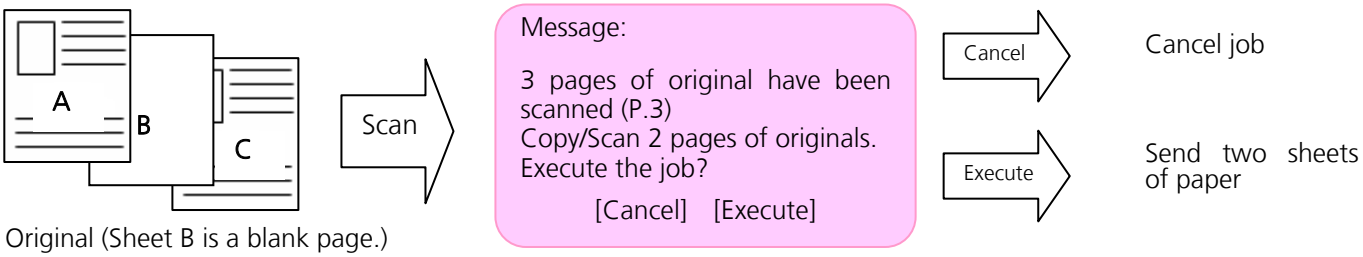
When users copy/scan pamphlet-styled document, conventional machines just copy/scan each sheet. Therefore, users haven't received the data in order of page number. MX-5112N / MX-4112N can copy/scan each page in order of page number by dividing right/left (top/bottom) centrefold of saddle stitched pamphlet into each page.

Saddle stitched pamphlet (left open)



Blank Page Skip (Copy/Scan)

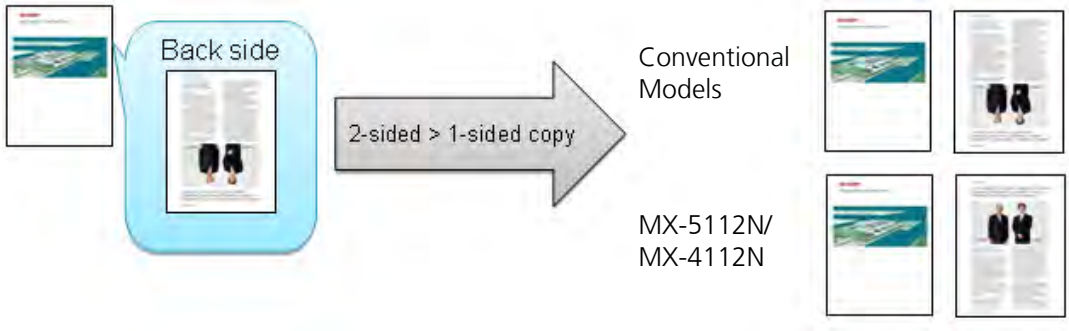
Deleting the blank pages that might be mixed in the original enables reduction of communication time and data volume. MX-5112N / MX-4112N can execute "Blank Page Skip" from the document glass, too.



Original (Sheet B is a blank page.)

Rotate Back Face 180 Degrees (2-side to 1-side)

The conventional models can set "Binding Change" if they want to rotate back face 180 degrees at the time of 1-side to 2-side, and of 2-side to 2-side. MX-5112N / MX-4112N can set "Rotate back face 180 deg"at the time of 2-side to 1-side in addition to 1-sided to 2-side and 2-side to 2-side.



A3 Full Bleed (Upgraded!)

When users copy an entire A3 size original at full size with no image cut-off at the edges, A3 wide size paper is used. When they use this feature, they have to install the optional right exit tray and/or finisher to the MFP. MX-5112N / MX-4112N can output the A3 wide paper into the centre tray, i.e. they don't need to install the optional right exit tray and/or finisher.

Other Upgraded Features

No.	Items	Explanation	Conventional Model Specification
1	Multi Shot (8 in 1)	Added 8 in 1 into the Multi shot feature.	Max 4 in 1.
2	Print only cover page at 1-up at the time of executing Multi Shot feature	Only cover page is printed at 1-up when users use the multi shot feature. This is enabled by combining the Multi Shot feature and Covers/Inserts feature.	Combination between Multi Shot feature and Covers/Inserts feature is not available.
3	Original Count	"Original Count" is available when copying data from the document glass, too.	"Original Count" is available only when copy is fed through document feeder.
4	Extended Multi-Page Enlargement	Supports enlargement from A system to B system, and B system to A system.	Supports A system to A system, and B system to B system.
5	Job Build	Users can change the setting for each batch, for example number of copies, or colour/ B/W setting.	Only one copy setting can be used.
6	Stop copy when no original (supported by Soft-SW)	When no original is set on the document glass/document feeder, copy operation is stopped.	Not available.

■ Print

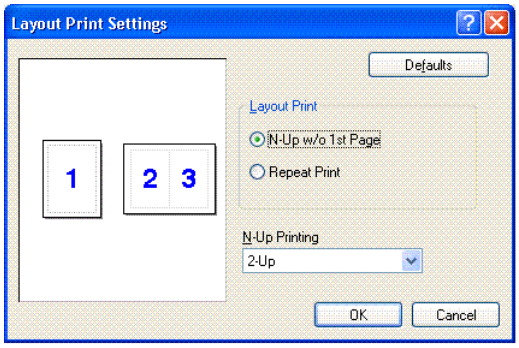
A3 Wide Pamphlet (New!)

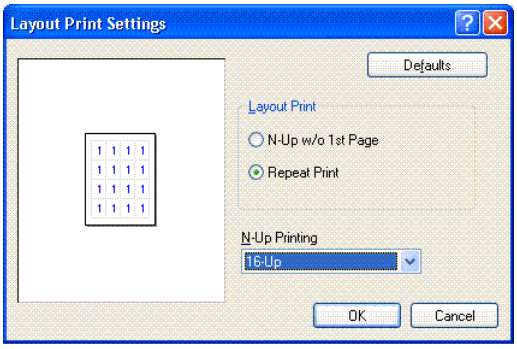
Usually, paper has area (outer circumference) that can't print data. (We usually call it the void area). However, if users want to print data up to the edge of paper, they print the data on the larger paper size and then cut the outer circumference (trim paper). We assume that this feature is useful when users print A4-sized document into A3 wide paper to prepare the pamphlet style document.

Note: Users have to install 4k saddle stitch finisher (MX-FN18) to prepare the A3 wide saddle stitched pamphlet.
This feature will be available later.

Layout Print (New!)

Users can print the specified multiple images on a single sheet of paper except for the first page (N-Up w/o 1st Page), or print the repeated images of the page on a single sheet of paper (Repeat Print),
Users can choose printer driver: [Special Mode] -> [Layout Print].





Other Major New Features

No.	Items	Explanation	Conventional Model Specification
1	Additional features that can set at the time of Direct Print	The following features can now be set. • Disabling setting of USB/SMB direct printing • N-up Print • Output resolution • Sharpness • Filing	Not available.
2	Pamphlet Style + N-Up Printing	Pamphlet Style + N-Up Printing are available.	Only Tiled Pamphlet and 2-Up Pamphlet can be chosen.
3	100% N-Up	When users want to execute N-Up print with the 100% ratio.	Not available.
4	Additional Duplex Style	Some applications such as Office 2010 can prepare Print setting mode. To print data in appropriate direction, users can choose three duplex styles.	Not available.

■ Image Send

Address Book

The number of addresses that can be registered increases from 999, (MX-5000N/01N / MX-4100N/01N) to 2,000. In addition, the address book format is changed. For example, when users register both email address and fax number, they can register both of them per registered name like with a mobile phones' address book. They can also set whether their address is opened to all users or limited users/group. This enhancement improves security and search performance.

My Address

Authentication information is granted to each address. When a user logs on to the MFP, he/she can view his/her own address. This feature improves user-friendliness and security.

Bk Letter Emphasis

MX-5112N / MX-4112N can prepare Bk Letter Emphasis mode, which can improves legibility of black letter, suppressing the file size. This high compression mode can be executed without installing the enhanced compression kit (MX-EB11). The resolution for black letter area is 300 dpi and the resolution for other area except for black letter area is 150 dpi. When users scan the data that includes mainly black letters and colour figure(s), they receive the smaller size data than the time when they scan the data at 200 dpi and medium compression ratio. Also the image quality for black letters is better than that obtained at 100 dpi although those file sizes are almost same.

The following figure describes the difference among normal PDF, Bk Letter Emphasis, and Compact PDF.

	Normal PDF			Bk Letter Emphasis	Compact PDF
	200 dpi	150 dpi	100 dpi		
File Size	Very Large	Large	Small	Small	Very Small
Image Quality	Good	Good Enough	Not Good	Bk Letter: Good Colour Letter: Good Enough Photo: Enough	Good

Note: The file size may vary, depending on the original data.

Output Data Example

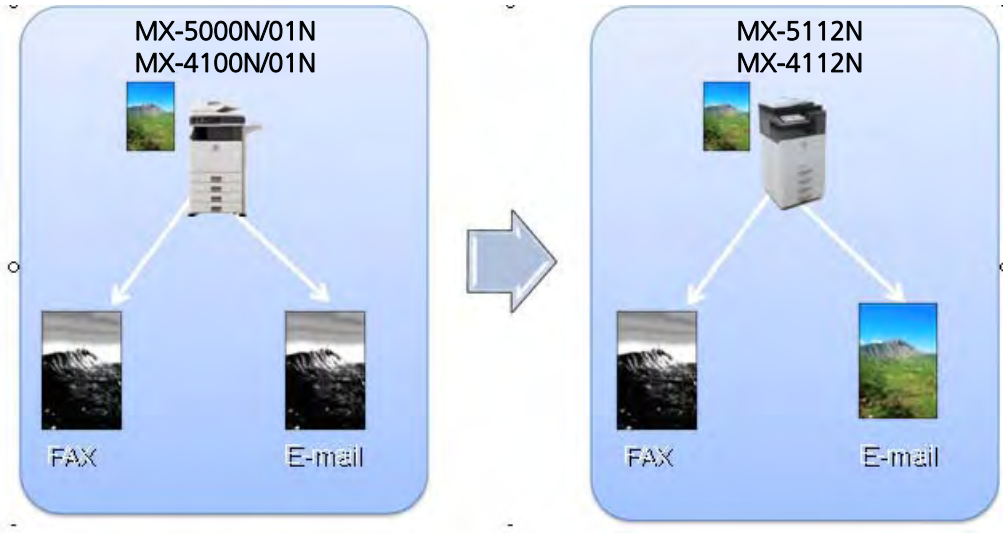
Data scanned at 100 dpi

Data scanned when Bk Letter Emphasis is on.

Note:
This mode supports black letters only. (It doesn't support grayscale letters, colour letters, and negative letters.)

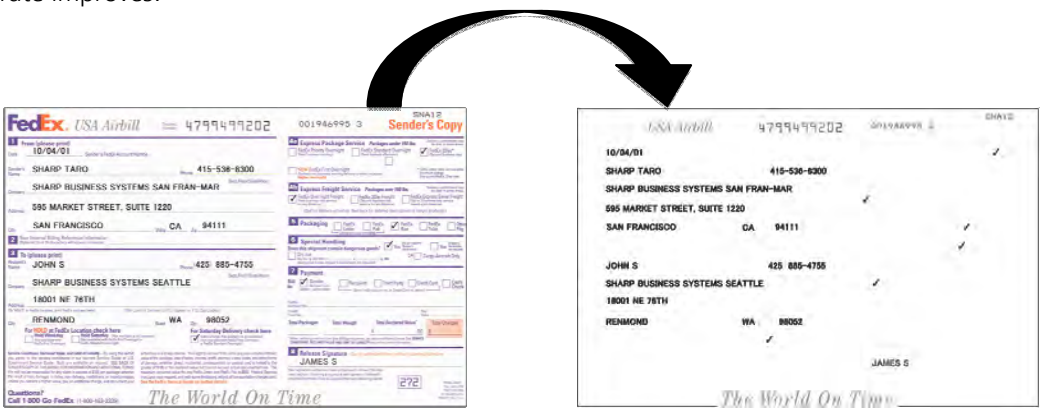
One Scan Multi Format

In the case of broadcasting, users can send the data by changing colour and/or resolution in each mode. For example, when sending data both to fax destination and email, users can send the data in B/W to Fax destination and in full colour to the e-mail address.



Drop Out Colour

It is possible to erase chromatic colour from the image. This feature for example, enables you to focus more easily on the words or phrases and store it more compactly. If users OCR the data that uses this feature, the recognition rate improves.



Note 1: This feature can only be used when set to [Mono2] in [Colour Mode].
Note 2: When this feature is selected, the "Original Image Type" setting for exposure adjustment automatically changes to "Text".
Note 3: This feature cannot be used in Internet Fax mode.

File Formats

The MX-5112N / MX-4112N are compatible with a wide variety of document file formats:

Mode	Print	Scan		
	Direct Print*[1]	B/W	Colour	Grayscale
Microsoft XPS	Opt*[1]	√	√	√
PDF	Opt*[2]	√	√	√
Compact PDF	Opt*[2]	-	√*[3]	√*[3]
Encrypted PDF	Opt*[2]	√	√	√
JPEG	√	–	√	√
TIFF	√	√	√	√

*[1] Requires MX-PUX1 and MX-SM10
*[2] Requires MX-PK11.
*[3] Requires MX-EB11

■ FAX

Easy Switching of Inbound Routing

Conventional models only set Inbound Routing from the Web page. With the MX-5112N / MX-4112N you can set it from the operation panel, too.

Store Fax Received Data on the HDD in MFP

Conventional models store only fax data in the FAX memory. If the fax memory is full, new fax data CANNOT be received. And then, if users print the data in the fax memory, the data is deleted. MX-5112N / MX-4112N can store fax data users want to save on the HDD of MFP.

Time Specified Output of Received Data

Users can print the received fax data at a specified time, for example when MFP is not heavily used, freeing up the MPF during busy times.

■ PC-FAX

Linkage with the Address Book from the Main Unit

It is possible to link with the address book of PC-Fax driver and the address book of the main unit to co-operate each other. The address book of the main unit can be imported by converting the data with the address book editor of PC-FAX.

Manual Entry of the Destination Name

For the manual entry of the destination on the PC-FAX driver, conventional models can enter the Fax number only. From MX-3610N / MX-3110N / MX-2610N, the destination name can also be edited.

Create Cover Sheet

Cover sheet created by the user with the arbitrary application can be used as the cover sheet of PC-FAX driver.

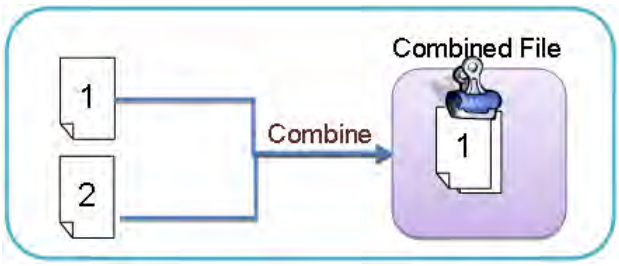
■ Document Filing

Combine File

Users can combine two files in the HDD of MX-5112N / MX-4112N into one file.

Note: Users CANNOT do the followings.

1. Combine three or more files.
2. Combine some part of data.
3. Specify the position of combination (Page inserts).



Create PDF for PC Browsing

Users can browse the PDF data stored on the MFP's HDD from their PC by converting the filing data into PDF data. Of course, they can download the PDF data.

Note: When you use this feature, both normal document filing data and PDF data are created, so they consume the capacity of MFP HDD.

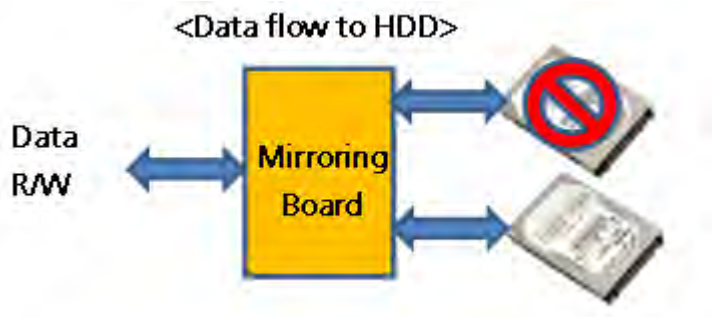
Store PC's Application Data into MFP's HDD

In addition to saving the filing data as PDF, users can use the MFP's HDD as the NAS. Other users can read/upload the data stored in MFP.

Note: We cannot assure the data stored into MFP's HDD, so we recommend installing the optional mirroring kit (MX-EB12) for safety.

Data Backup (Mirroring Kit)

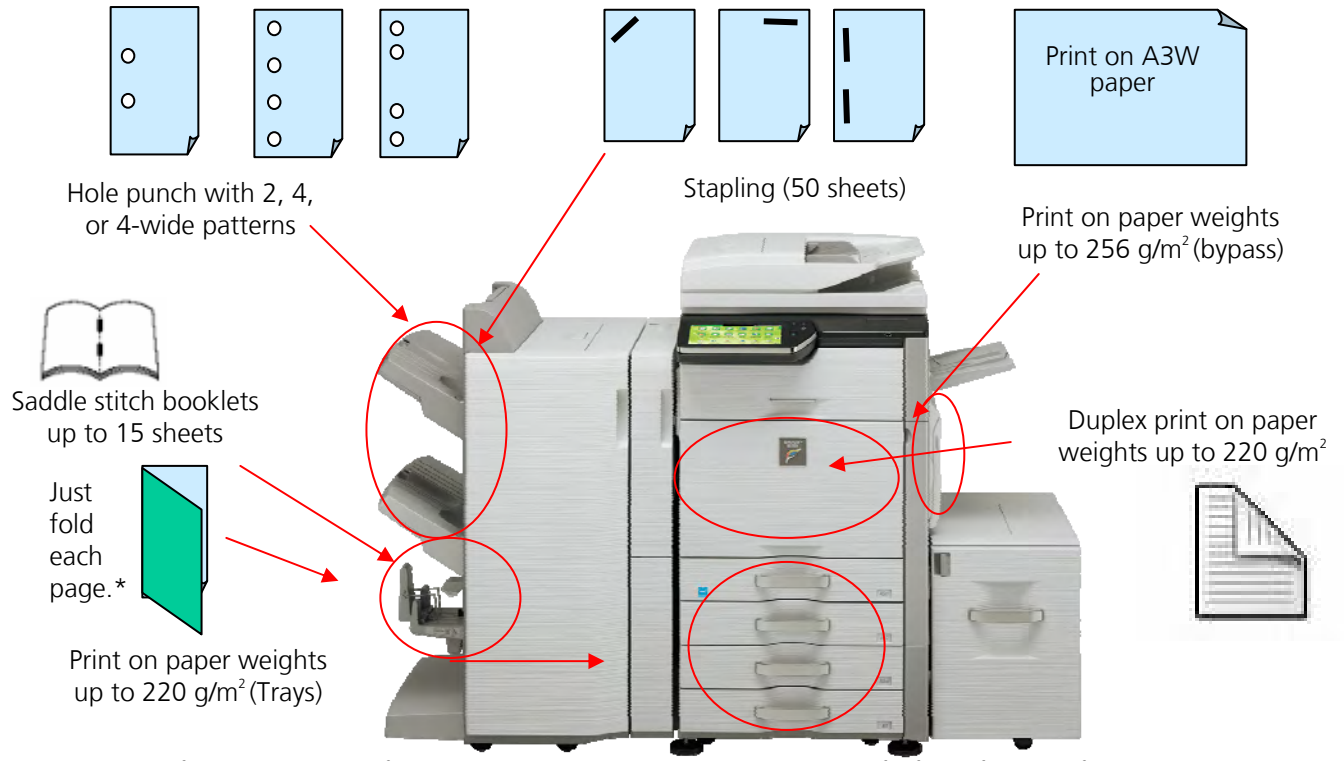
Data handling has been enhanced on the MX-5112N / MX-4112N, for example users can use the MFP's HDD as NAS and share/edit the document filing data. The optional Mirroring Kit is a second hard drive which enables data back up of those files stored on the HDD.



Even if one HDD is broken, the data can be secured.

■ Flexible Paper Handling

More and more offices are choosing to create as many documents as possible in-house. This means that an office MFP has to be able to produce a wide variety of documents in different formats and styles.


Print on A3W paper
Hole punch with 2, 4, or 4-wide patterns
Stapling (50 sheets)
Print on paper weights up to 256 g/m² (bypass)
Saddle stitch booklets up to 15 sheets
Just fold each page.*
Duplex print on paper weights up to 220 g/m²
Print on paper weights up to 220 g/m² (Trays)

* It is possible to fold a single sheet of paper without stapling. This is particularly useful for leaflets, and for areas where postage costs are determined by package size.

RSPF: 100 sheets (35 - 128 gsm), A5-A3
Scan speed up to 51 opm
DSPF: 150 sheets (35 - 128 gsm), A5-A3
Scan speed up to 75 opm

Bypass: 100 sheets (55 - 256 gsm)
Std: A5R-A3W

LCC: 3,500 sheets (60 - 105 gsm)
Opt: A4, B5

Trays: 500 sheets each (60 - 220 gsm)
2 x std A5R-A3
2 x opt A5R-A3
Total Std: 1,100 sheets
Total Max: 5,600 sheets

Thanks to this flexibility in finishing options, plus the excellent output quality, the MX-5112N / MX-4112N can be used for many types of document; from reports and records to training materials, not to mention leaflets, mail drops or posters.

Note: Punch module can punch 55 g/m² - 256 g/m² paper. But in case of 129 g/m² - 256 g /m² paper, the punch hole may not be a perfect circle.

Finishing Options

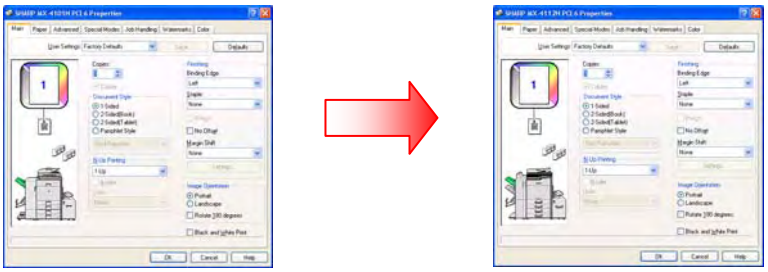
	No Finisher attached, optional exit tray installed	MX-FNX9 Inner Finisher, optional exit tray installed	MX-FN10 1K Saddle Stitch Finisher, optional exit tray installed	MX-FN11 Finisher, optional exit tray installed	MXFN18 Saddle Stitch Finisher, optional exit tray installed
Output capacity	400 sheets (centre) 100 sheets (exit tray) TTL: 500 sheets	500 sheets (inner finisher) 100 sheets (exit tray) TTL: 600 sheets	1,000 sheets (finisher) 100 sheets (exit tray) TTL: 1,100 sheets	4,000 sheets (finisher) 100 sheets (exit tray) TTL: 4,100 sheets	4,000 sheets (finisher) 100 sheets (exit tray) TTL: 4,100 sheets
Staple capacity	N/A	50 sheets (A4) 30 sheets (A3)	50 sheets (A4) 25 sheets (A3)	50 sheets (A4) 30 sheets (A3)	50 sheets (A4) 30 sheets (A3)
Saddle Stitch capacity	N/A	N/A	15 sheets	N/A	15 sheets
Hole Punching	No	Opt	Opt	Opt	Opt

■ Ease of Use

Common Drivers

Sharp uses a simple driver design, which is standardised across most models meaning that:

- If you can use one Sharp printer, you can use any other Sharp printers
- Only one driver disk is needed to install drivers for any of our colour range, making drivers easy to manage



MX-5000N/01N/ MX-4100N/01N MX-5112N/ MX-4112N

Remote Access Front Panel

The control panel for most MFPs is fixed, making it difficult for some people to use the MFP. To combat this, Sharp has developed the Remote Front Panel which shows the full operation panel on a PC as it is on the MFP, making it easy to control remotely. Service helpdesk or disabled users can connect with the MFP using this feature.

Remarks: It is necessary to install the remote software to users' PC. (Recommended VNC Software: RealVNC, TinyVNC, SRDM)

Other uses include:

- Training – the user panel can be shown to a whole room using a projector, so there is no need for all of the trainees to group around the front of the MFP.
- Helpdesk support – help a user navigate using Remote Front Panel, so no need to visit the MFP.
- Remote Administration – for example, an admin at a company HQ does not need to visit the branch office to manage the MFP.
- Sharp OSA developers can support their software remotely.

USB Interface

An easy to access USB port allows users to scan important documents directly onto their USB memory drive, or to print documents directly from their USB memory. Compatible file formats include:

- PDF
- Encrypted PDF
- Compact PDF (MX-EB11 installed)
- XPS
- JPEG
- TIFF

Note: When users print PDF, Encrypted PDF, or Compact PDF data in USB memory, they have to install MX-PK11.

There are two USB ports; one at the front of the MFP on the operation panel and one at the rear of the MFP. Both ports (rear side and front side) can be used simultaneously.

Two places

System Settings

When users want to operate the system settings, they operate from the operation panel and/or the Web page. However, as for conventional models, some settings can be made only from Web page and the screen of the system settings. With the MX-5112N / MX-4112N, the number of settings that can be made is almost the same from the operation panel and Web page.

■ Multi-layered Security Solutions

The MX-5112N / MX-4112N employs Sharp's unsurpassed expertise in security to ensure that your data remains safe; whoever has access to your MFP.

Secure data during communications with the MFP

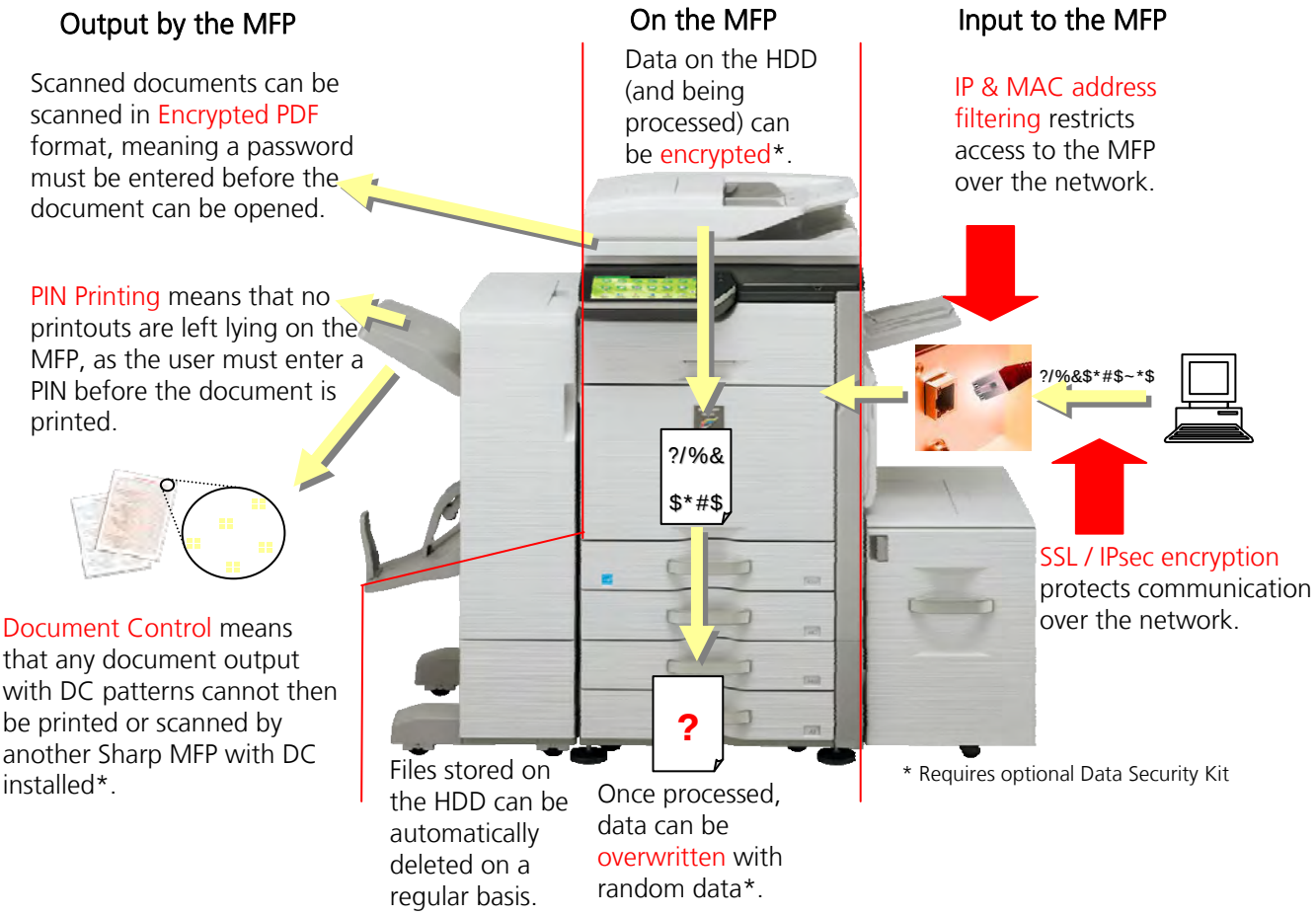
- HTTPS / SSL / IPsec network data encryption
- IP / MAC address filtering

Secure data stored on the MFP

- Encrypt data during processing
- Overwrite data on HDD once processing is complete
- Encrypt the HDD
- Automatically delete files after a set period

Secure data once it leaves the MFP

- PIN printing
- Encrypted PDF support


Output by the MFP
Scanned documents can be scanned in Encrypted PDF format, meaning a password must be entered before the document can be opened.
PIN Printing means that no printouts are left lying on the MFP, as the user must enter a PIN before the document is printed.
Document Control means that any document output with DC patterns cannot then be printed or scanned by another Sharp MFP with DC installed*.
On the MFP
Data on the HDD (and being processed) can be encrypted*.
?/%&
$*#$
?
Files stored on the HDD can be automatically deleted on a regular basis.
Once processed, data can be overwritten with random data*.
Input to the MFP
IP & MAC address filtering restricts access to the MFP over the network.
?/%&$*#$~*$
SSL / IPsec encryption protects communication over the network.
* Requires optional Data Security Kit

IEEE 802.1X

IEEE 802.1X is a LAN standard established by the IEEE 802 committee. It is a technology used to authenticate hardware connected to the network; therefore its main function is to prevent unauthorised machines from gaining access to your network. The MX-5112N / MX-4112N support IEEE 802.1X, maintaining the high level of security your network requires using three main techniques:

- Authentication on LAN switches
- DHCP server system
- Personal firewall system

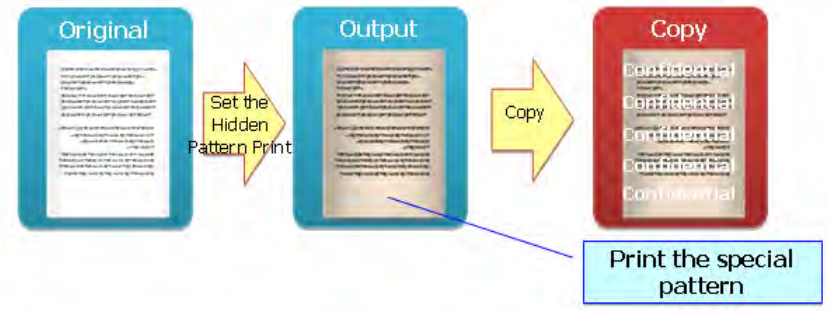
Initialize Private Data/Data in the Machine

Users can restore the system-set value to the factory default state and can delete the data such as address book data, job log, or data in document filing folders stored in MX-5112N / MX-4112N by themselves, by pressing the "Initialize Private Data/Data in the Machine" button. By using this feature, users do not need to worry that their important information has leaked.

Hidden Pattern Print (Copy/ Print) (New!)

This feature allows the user to add text in the background of an original document, for example 'Copy', 'Confidential' or 'Not for Copy'.

If the original is copied, the MFP detects this 'pattern' and prints the text across the original document. This feature can prevent unauthorised copy and protect the confidential information/ personal information.



Tracking Information Print (New!)

Some information such as printed date/user name is always printed on the data on the upper or lower side of the sheet by checking this feature on the system settings. Tying this feature to the job log enables information tracking.

■ Connectivity

There are so many different environments and systems in use in today's office that an MFP needs to be compatible with as many as possible. The MX-5112N / MX-4112N have been developed with this in mind.

Sharp is a gold-level member of the **SAP® Printer Vendor Program**. SAP device types for all of our devices will be created to provide connectivity with SAP.

WHQL (Windows Hardware Quality Labs) testing ensures full compatibility with Windows systems.

Sharp is a Citrix Ready Technology Member, giving us access to testing resources, technical support and other Citrix development tools.

Compatibility with the CUPS (Common Unix Printing System) ensures you can use your MFP with both Unix and Linux.

Not only can our devices work with all these software vendors, the MX-5112N / MX-4112N can communicate with them exceptionally quickly over the latest networking technologies:

- Standard Gigabit Ethernet (1000Base-T)
- IPv6

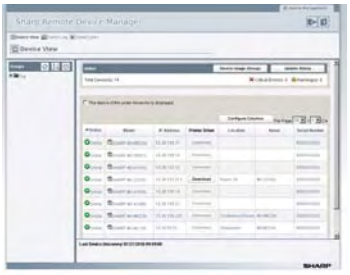
Note: Note: SAP and all SAP logos are trademarks or registered trademarks of SAP AG in Germany and in several other countries.

Sharp Remote Device Manager

Sharp Remote Device Manager (SRDM) (previous name: PAU) is the latest version of Sharp's own web-based administration utility. It allows administrators to manage their fleet of MFPs quickly and easily, without having to physically visit the MFP.

SRDM has following features same as PAU 5:

- Login
- Hierarchical grouping
- Remote operation
- Cloning multiple machines (1 to many)
- Firmware update on multiple machines (1 to many)*
- Remote access to Sim 22-6, 23-2 lists*



SRDM's main features

- Device discovery
- Status update
- Device management
- E-mail alerts
- Cloning
- Remote operation
- Driver download
- Service report*
- Display and Export of device usage information*
- Firmware update*

Note: * These items are for service people.

Target Users

Function	Service User	Advanced User	General User
System Settings Cloning	Yes	Yes	No
Service Reports	Yes	No	No
Firmware Update	Yes	No	No
Remote Operation	Yes*	Yes*	No
SRDM System Settings	Yes	Yes	No
Driver Download	Yes	Yes	Yes
Setting up Driver	Yes	Yes	No
Device List	Yes	Yes	Yes
Device Search	Yes	Yes	No
Service Alert	Yes	Yes	No
Display and Export of Device Usage Information	Yes	Yes	No

* The Remote Operation feature will allow users to access, depending on the system settings, the Remote Operation at the MFP side.

Note: MX-5112N / MX-4112N currently have limited support for SRDM due to lack of bitmap image of MFP.

Competitive Comparison

The competitive analysis is designed to promote the features of the MX-5112N / MX-4112N in terms of their competitive advantages.

Content Items and Order:

- Sharp MX-5112N / MX-4112N Vs. Canon iR-ADVANCE C5045/i
- Sharp MX-5112N / MX-4112N Vs. Canon iR-ADVANCE C5051/i
- Sharp MX-5112N / MX-4112N Vs. Ricoh Aficio MP C4501
- Sharp MX-5112N / MX-4112N Vs. Ricoh Aficio MP C5501
- Sharp MX-5112N / MX-4112N Vs. Konica Minolta bizhub C452
- Sharp MX-5112N / MX-4112N Vs. Konica Minolta bizhub C552
- Sharp MX-5112N / MX-4112N Vs. Kyocera TASKalfa 400ci
- Sharp MX-5112N / MX-4112N Vs. Kyocera TASKalfa 500ci
- Sharp MX-5112N / MX-4112N Vs. Toshiba e-Studio 4520c
- Sharp MX-5112N / MX-4112N Vs. Toshiba e-Studio 4520c PRO
- Sharp MX-5112N / MX-4112N Vs. Xerox WorkCentre 7545
- Sharp MX-5112N / MX-4112N Vs. Xerox WorkCentre 7556

The above list is covered by one page per product vs. product comparisons in this section. The feature advantages are translated into application benefits. These points can be used to describe the sales arguments on what the strengths of the MX series are.

■ Sharp MX-5112N / MX-4112N vs. Canon iR-ADVANCE C5045/i

Manufacturer	Sharp	Canon
Model	MX-5112N / MX-4112N	iR-ADV C5045/i
Launch Date	May. 11	Oct. 09
Also Sold As	N/A	N/A
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Std
Fax	Opt	Opt
Document Filing	Std	No
Base Engine	Desktop	Desktop
Paper Max. Size	A3W	A3W
Total Cassettes Std.	2	2
Total Cassettes Max.	5	5
Total Sheets Std.	1,100	1,200
Total Sheets Max.	5,600	5,000
No of sheets (Bypass)	100	100
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	52-209/ 52-256
Duplex	Std (60-220)	Std (52-209)
Warm up time (secs)	34 / 30	38
Std. Mem. Mb	3 GB (shared)	2.5 GB (shared)
Max. Mem. Mb	3 GB (shared)	2.5 GB (shared)
Hard Drive	Std (160 GB)	Std (80 GB)/ Max (250 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	620 x 760 x 982
Machine Size (WxDxH) DSPF	643 x 761 x 966	620 x 735 x 938
Toner Life (B/W)	40k (5%)	44k (5%)
Toner Life (Col)	18k (5%)	38k (5%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51 / 41	45
First Copy Time (B/W/ Col)	5.7/4.1 / 6.7/4.7	6.5/4.0
Max. Original Size	A3	A3
Max. Qty. Select	999	999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Canon
Model	MX-5112N / MX-4112N	iR-ADV C5045/i
Document Feeder	**Opt**	**Opt**
Type	DSPF / RSPF	DSPF / RADF
Capacity (sheets)	150 / 100	100 / 150
Paper weight (gsm) 1-sided	35-128	42-128
Paper weight (gsm) 2-sided	50-128 / 50-105	50-128
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51 / 41	45
Print Resolution (dpi)	1,200 x 1,200	1,200 x1,200
Postscript	Opt	Opt / Std
PCL	Std (PCL6)	Opt (PCL6/5c) / Std (PCL6/5c)
XPS	Opt	No
Printer Std. Mem.	3 GB (shared)	2.5 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	2.5 GB (shared)
Gigabit Ethernet	Std	Std
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3
PC-Fax	Opt	INA
i-Fax	Opt	Std
Fax Broadcast	500	512
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col) RSPF / DSPF	51 / 75	70
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN	Email, SMB, FTP, I-Fax, HDD, URL, TWAIN
Functionality	Sharpdesk	Canon Colour Network ScanGear
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	500/3000/3000
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	No/No/Yes
Hole Punch	Yes	Yes

Strengths of MX-5112N / MX-4112N	Strengths of Canon iR-ADVANCE C5045/i
✓ Std. document filing	✓ Higher std. paper capacity
✓ Higher max. paper capacity	✓ Lighter paper weight (tray, bypass, and duplex)
✓ Lighter paper weight (document feeder: 1-sided)	✓ Larger max. HDD
✓ Heavier paper weight (trays & duplex)	✓ Smaller footprint
✓ Faster warm up time	✓ Longer toner life (B/W & colour)
✓ More memory	✓ Faster first copy time (B/W)
✓ Faster first copy time (MX-5112N: colour)	✓ Std PS (iR-ADV C5045i)
✓ Opt. XPS	✓ Std. i-Fax
✓ Faster output (MX-5112N)	✓ More fax broadcasts
✓ Faster scan speed (via DSPF)	
✓ Higher capacity finisher	

■ Sharp MX-5112N / MX-4112N vs. Canon iR-ADVANCE C5051/i

Manufacturer	Sharp	Canon
Model	MX-5112N / MX-4112N	iR-ADV C5051/i
Launch Date	May. 11	Oct. 09
Also Sold As	N/A	N/A
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Std
Fax	Opt	Opt
Document Filing	Std	No
Base Engine	Desktop	Desktop
Paper Max. Size	A3W	A3W
Total Cassettes Std.	2	2
Total Cassettes Max.	5	5
Total Sheets Std.	1,100	1,200
Total Sheets Max.	5,600	5,000
No of sheets (Bypass)	100	100
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	52-209/ 52-256
Duplex	Std (60-220)	Std (52-209)
Warm up time (secs)	34 / 30	38
Std. Mem. Mb	3 GB (shared)	2.5 GB (shared)
Max. Mem. Mb	3 GB (shared)	2.5 GB (shared)
Hard Drive	Std (160 GB)	Std (80 GB) Max (250 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	620 x 760 x 982
Machine Size (WxDxH) DSPF	643 x 761 x 966	620 x 735 x 938
Toner Life (B/W)	40k (5%)	44k (5%)
Toner Life (Col)	18k (5%)	38k (5%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51 / 41	51
First Copy Time (B/W/ Col)	4.1/5.7 / 4.7/6.7	4.0/6.5
Max. Original Size	A3	A3
Max. Qty. Select	999	999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Canon
Model	MX-5112N / MX-4112N	iR-ADV C5051/i
Document Feeder	**Opt**	**Opt**
Type	DSPF / RSPF	DSPF / RADF
Capacity (sheets)	150 / 100	100 / 150
Paper weight (gsm) 1-sided	35-128	40-128
Paper weight (gsm) 2-sided	50-128 / 50-105	50-128
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51 / 41	51
Print Resolution (dpi)	1,200 x 1,200	1,200 x1,200
Postscript	Opt	Opt / Std
PCL	Std (PCL6)	Opt (PCL6/5c) / Std (PCL6/5c)
XPS	Opt	No
Printer Std. Mem.	3 GB (shared)	2.5 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	2.5 GB (shared)
Gigabit Ethernet	Std	Std
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3
PC-Fax	Opt	INA
i-Fax	Opt	Std
Fax Broadcast	500	512
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col)	RSPF 51 / DSPF 75	70
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN	Email, SMB, FTP, I-Fax, HDD, URL, TWAIN
Functionality	Sharpdesk	Canon Colour Network ScanGear
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	500/3000/3000
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	No/No/Yes
Hole Punch	Yes	Yes

Strengths of MX-5112N / MX-4112N	Strengths of Canon iR-ADVANCE C5051/i
✓ Std. document filing	✓ Higher std. paper capacity
✓ Higher max. paper capacity	✓ Lighter paper weight (tray, bypass, and duplex)
✓ Lighter paper weight (document feeder: 1-sided)	✓ Larger max. HDD
✓ Heavier paper weight (trays & duplex)	✓ Smaller footprint
✓ Faster warm up time	✓ Longer toner life (B/W & colour)
✓ More memory	✓ Faster first copy time (B/W)
✓ Faster first copy time (MX-5112N: colour)	✓ Std. PS (iR-ADV C5051i)
✓ Opt. XPS	✓ Std. i-Fax
✓ Faster scan speed (via DSPF)	✓ More fax broadcasts
✓ Higher capacity finisher	

■ Sharp MX-5112N / MX-4112N vs. Ricoh MP C4501

Manufacturer	Sharp	Ricoh
Model	MX-5112N / MX-4112N	Ricoh MP C4501
Launch Date	May. 11	Nov. 10
Also Sold As	N/A	Gestetner MP C4501 Nashuatec MP C4501 Rex-Rotary MP C4501
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Std
Fax	Opt	Opt
Document Filing	Std	No
Base Engine	Desktop	Console
Paper Max. Size	A3W	A3W
Total Cassettes Std.	2	2
Total Cassettes Max.	5	5
Total Sheets Std.	1,100	1,200
Total Sheets Max.	5,600	4,400
No of sheets (Bypass)	100	100
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	60-256/ 60-300
Duplex	Std (60-220)	Std (60-169)
Warm up time (secs)	34 / 30	22
Std. Mem. Mb	3 GB (shared)	2 GB (shared)
Max. Mem. Mb	3 GB (shared)	2 GB (shared)
Hard Drive	Std (160 GB)	Std (160 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	670 x 677 x 760
Machine Size (WxDxH) DSPF	643 x 761 x 966	N/A
Toner Life (B/W)	40k (5%)	30k (5%)
Toner Life (Col)	18k (5%)	18k (5%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51 / 41	45
First Copy Time (B/W/ Col)	4.1/5.7 / 4.7/6.7	3.7/5.9
Max. Original Size	A3	A3
Max. Qty. Select	999	999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Ricoh
Model	MX-5112N / MX-4112N	Ricoh MP C4501
Document Feeder	**Opt**	**Opt**
Type	DSPF / RSPF	RADF
Capacity (sheets)	150 / 100	100
Paper weight (gsm) 1-sided	35-128	40-128
Paper weight (gsm) 2-sided	50-128 / 50-105	INA
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51 / 41	45
Print Resolution (dpi)	1,200 x 1,200	1,200 x1,200
Postscript	Opt	Opt
PCL	Std (PCL6)	Std (PCL6/5c)
XPS	Opt	Std
Printer Std. Mem.	3 GB (shared)	2 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	2 GB (shared)
Gigabit Ethernet	Std	Opt
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3
PC-Fax	Opt	Opt
i-Fax	Opt	Opt
Fax Broadcast	500	500
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col)	RSPF 51 / DSPF 75	67
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN	Email, SMB, FTP, I-Fax, HDD, URL, TWAIN
Functionality	Sharpdesk	Std DeskTopBinder Opt GlobalScan NX
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	1250/2250/3250
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	No/Yes/No
Hole Punch	Yes	Yes

Strengths of MX-5112N / MX-4112N	Strengths of Ricoh MP C4501
✓ Std. Document Filing	✓ Higher std. paper capacity
✓ Higher max. paper capacity	✓ Heavier paper support (tray & bypass)
✓ Lighter paper weight (bypass & 1-sided document feeder)	✓ Faster warm up time
✓ Heavier paper support (duplex)	✓ Smaller footprint (with RSPF)
✓ More memory	✓ Faster first copy time (B/W)
✓ Longer toner life (B/W)	✓ Std. XPS
✓ Faster output (MX-5112N only)	
✓ Faster first copy time (MX-5112N: colour)	
✓ Higher capacity document feeder (DSPF)	
✓ Std. Gigabit Ethernet	
✓ Faster scan speed (via DSPF)	
✓ Higher capacity finisher	

■ Sharp MX-5112N / MX-4112N vs. Ricoh MP C5501

Manufacturer	Sharp	Ricoh
Model	MX-5112N / MX-4112N	Ricoh MP C5501
Launch Date	May. 11	Nov. 10
Also Sold As	N/A	Gestetner MP C5501 Nashuatec MP C5501 Rex-Rotary MP C5501
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Opt
Fax	Opt	Opt
Document Filing	Std	No
Base Engine	Desktop	Console
Paper Max. Size	A3W	A3W
Total Cassettes Std.	2	2
Total Cassettes Max.	5	5
Total Sheets Std.	1,100	1,200
Total Sheets Max.	5,600	4,400
No of sheets (Bypass)	100	100
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	60-256/ 60-300
Duplex	Std (60-220)	Std (60-169)
Warm up time (secs)	34 / 30	36
Std. Mem. Mb	3 GB (shared)	2 GB (shared)
Max. Mem. Mb	3 GB (shared)	2 GB (shared)
Hard Drive	Std (160 GB)	Std (160 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	670 x 677 x 760
Machine Size (WxDxH) DSPF	643 x 761 x 966	N/A
Toner Life (B/W)	40k (5%)	30k (5%)
Toner Life (Col)	18k (5%)	18k (5%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51 / 41	55
First Copy Time (B/W/ Col)	4.1/5.7 / 4.7/6.7	3.1/5.0
Max. Original Size	A3	A3
Max. Qty. Select	999	999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Ricoh
Model	MX-5112N / MX-4112N	Ricoh MP C5501
Document Feeder	**Opt**	**Opt**
Type	DSPF / RSPF	RADF
Capacity (sheets)	150 / 100	100
Paper weight (gsm) 1-sided	35-128	40-128
Paper weight (gsm) 2-sided	50-128 / 50-105	INA
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51 / 41	55
Print Resolution (dpi)	1,200 x 1,200	1,200 x1,200
Postscript	Opt	Opt
PCL	Std (PCL6)	Std (PCL6/5c)
XPS	Opt	Std
Printer Std. Mem.	3 GB (shared)	2 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	2 GB (shared)
Gigabit Ethernet	Std	Opt
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3
PC-Fax	Opt	Opt
i-Fax	Opt	Opt
Fax Broadcast	500	500
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col)	RSPF 51 / DSPF 75	67
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN	Email, SMB, FTP, I-Fax, HDD, URL, TWAIN
Functionality	Sharpdesk	Std DeskTopBinder Opt GlobalScan NX
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	1250/2250/3250
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	No/Yes/No
Hole Punch	Yes	Yes

Strengths of MX-5112N / MX-4112N	Strengths of Ricoh MP C5501
✓ Std. Document Filing	✓ Higher std. paper capacity
✓ Higher max. paper capacity	✓ Heavier paper support (tray & bypass)
✓ Lighter paper weight (bypass & 1-sided document feeder)	✓ Smaller footprint (with RSPF)
✓ Heavier paper support (duplex)	✓ Faster output
✓ Faster warm up time (MX-4112N only)	✓ Faster first copy time (B/W & colour)
✓ More memory	✓ Std. XPS
✓ Longer toner life (B/W)	
✓ Higher capacity document feeder (DSPF)	
✓ Std. Gigabit Ethernet	
✓ Faster scan speed (via DSPF)	
✓ Higher capacity finisher	

■ Sharp MX-5112N / MX-4112N vs. Konica Minolta bizhub C452

Manufacturer	Sharp	Konica Minolta
Model	MX-5112N / MX-4112N	bizhub C452
Launch Date	May. 11	Oct. 09
Also Sold As	N/A	Develop ineo+ 452 Oce VarioLink 4522c Olivetti d-Color MF451
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Std
Fax	Opt	Opt
Document Filing	Std	Std
Base Engine	Desktop	Console
Paper Max. Size	A3W	A3W
Total Cassettes Std.	2	4
Total Cassettes Max.	5	5
Total Sheets Std.	1,100	3,650
Total Sheets Max.	5,600	6,650
No of sheets (Bypass)	100	150
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	64-256/ 64-300
Duplex	Std (60-220)	Std (64-256)
Warm up time (secs)	34 / 30	45
Std. Mem. Mb	3 GB (shared)	2 GB (shared)
Max. Mem. Mb	3 GB (shared)	3 GB (shared)
Hard Drive	Std (160 GB)	Std (250 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	650 x 879 x 1,155
Machine Size (WxDxH) DSPF	643 x 761 x 966	N/A
Toner Life (B/W)	40k (5%)	45k (5%)
Toner Life (Col)	18k (5%)	30k (5%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51 / 41	45
First Copy Time (B/W/ Col)	4.1/5.7 / 4.7/6.7	4.8/6.0
Max. Original Size	A3	A3
Max. Qty. Select	999	9,999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Konica Minolta
Model	MX-5112N / MX-4112N	bizhub C452
Document Feeder	**Opt**	**Opt**
Type	DSPF / RSPF	RADF
Capacity (sheets)	150 / 100	100
Paper weight (gsm) 1-sided	35-128	35-210
Paper weight (gsm) 2-sided	50-128 / 50-105	50-128
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51 / 41	45
Print Resolution (dpi)	1,200 x 1,200	1,800(equivalent) x 600
Postscript	Opt	Std
PCL	Std (PCL6)	Std (PCL6)
XPS	Opt	Std
Printer Std. Mem.	3 GB (shared)	2 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	3 GB (shared)
Gigabit Ethernet	Std	Std
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3
PC-Fax	Opt	Opt
i-Fax	Opt	Std
Fax Broadcast	500	605
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col)	RSPF 51 / DSPF 75	78
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN	Email, SMB, FTP, I-Fax, HDD, URL, TWAIN
Functionality	Sharpdesk	Opt PageScope Workware
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	3200
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	Yes
Hole Punch	Yes	Yes

Strengths of MX-5112N / MX-4112N	Strengths of Konica Minolta bizhub C452
✓ Lighter paper support (trays, bypass, and duplex)	✓ More std. cassettes
✓ Faster warm up time	✓ Higher std. & max. paper capacity
✓ More memory (Std. copier & printer)	✓ Heavier paper support (trays, bypass, duplex, and 1-sided document feeder)
✓ Smaller footprint (with RSPF)	✓ Larger HDD
✓ Faster output (MX-5112N only)	✓ Longer toner life (B/W & colour)
✓ Faster first copy time (B/W: both, Col: MX-5112N only)	✓ More max. qty select
✓ Higher capacity document feeder (DSPF)	✓ Std. PS & XPS
✓ Higher print resolution	✓ Faster scan speed (B/W & colour)
✓ Higher capacity finisher	✓ Std. i-Fax
	✓ More fax broadcasts

■ Sharp MX-5112N / MX-4112N vs. Konica Minolta bizhub C552

Manufacturer	Sharp	Konica Minolta
Model	MX-5112N / MX-4112N	bizhub C552
Launch Date	May. 11	Mar. 09
Also Sold As	N/A	Develop ineo+ 552 Oce VarioLink 5522c Olivetti d-Color MF551
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Std
Fax	Opt	Opt
Document Filing	Std	Std
Base Engine	Desktop	Console
Paper Max. Size	A3W	A3W
Total Cassettes Std.	2	4
Total Cassettes Max.	5	5
Total Sheets Std.	1,100	3,650
Total Sheets Max.	5,600	6,650
No of sheets (Bypass)	100	150
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	64-256/ 64-300
Duplex	Std (60-220)	Std (64-256)
Warm up time (secs)	34 / 30	45
Std. Mem. Mb	3 GB (shared)	2 GB (shared)
Max. Mem. Mb	3 GB (shared)	3 GB (shared)
Hard Drive	Std (160 GB)	Std (250 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	650 x 879 x 1,155
Machine Size (WxDxH) DSPF	643 x 761 x 966	N/A
Toner Life (B/W)	40k (5%)	45k (5%)
Toner Life (Col)	18k (5%)	30k (5%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51/51 / 41/41	55/45
First Copy Time (B/W/ Col)	4.1/5.7 / 4.7/6.7	4.3/6.0
Max. Original Size	A3	A3
Max. Qty. Select	999	9,999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Konica Minolta
Model	MX-5112N / MX-4112N	bizhub C552
Document Feeder	**Opt**	**Opt**
Type	DSPF / RSPF	RADF
Capacity (sheets)	150 / 100	100
Paper weight (gsm) 1-sided	35-128	35-210
Paper weight (gsm) 2-sided	50-128 / 50-105	50-128
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51/51 / 45	55/45
Print Resolution (dpi)	1,200 x 1,200	1,800(equivalent) x 600
Postscript	Opt	Std
PCL	Std (PCL6)	Std (PCL6/5e)
XPS	Opt	Std
Printer Std. Mem.	3 GB (shared)	2 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	3 GB (shared)
Gigabit Ethernet	Std	Std
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3
PC-Fax	Opt	Opt
i-Fax	Opt	Std
Fax Broadcast	500	605
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col) RSPF / DSPF	51 / 75	78
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN	Email, SMB, FTP, I-Fax, HDD, URL, TWAIN
Functionality	Sharpdesk	Opt PageScope Workware
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	3500
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	Yes
Hole Punch	Yes	Yes

Strengths of MX-5112N / MX-4112N	Strengths of Konica Minolta bizhub C552
✓ Lighter paper support (trays, bypass, and duplex)	✓ More std. cassettes
✓ Faster warm up time	✓ Higher std. & max. paper capacity
✓ More memory (Std. copier & printer)	✓ Heavier paper support (trays, bypass, duplex, and 1-sided document feeder)
✓ Smaller footprint (with RSPF)	✓ Faster output (B/W)
✓ Faster output (Colour: MX-5112N only)	✓ Larger HDD
✓ Faster first copy time (B/W: both, Col: MX-5112N only)	✓ Longer toner life (B/W & colour)
✓ Higher capacity document feeder (DSPF)	✓ More max. qty select
✓ Higher print resolution	✓ Std. PS & XPS
✓ Higher capacity finisher	✓ Faster scan speed (B/W & colour)
	✓ Std. i-Fax
	✓ More fax broadcasts

■ Sharp MX-5112N / MX-4112N vs. Toshiba e-Studio 4520c

Manufacturer	Sharp	Toshiba
Model	MX-5112N / MX-4112N	e-Studio 4520c
Launch Date	May. 11	May 08
Also Sold As	N/A	N/A
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Std
Fax	Opt	Opt
Document Filing	Std	No
Base Engine	Desktop	Desktop
Paper Max. Size	A3W	A3W
Total Cassettes Std.	2	2
Total Cassettes Max.	5	4
Total Sheets Std.	1,100	1,200
Total Sheets Max.	5,600	3,700
No of sheets (Bypass)	100	100
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	64-256/ 64-280
Duplex	Std (60-220)	Std (INA-256)
Warm up time (secs)	34 / 30	30 from lower power mode
Std. Mem. Mb	3 GB (shared)	1.5 GB (shared)
Max. Mem. Mb	3 GB (shared)	1.5 GB (shared)
Hard Drive	Std (160 GB)	Std (80 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	699 x 774 x 759
Machine Size (WxDxH) DSPF	643 x 761 x 966	N/A
Toner Life (B/W)	40k (5%)	29k (6%)
Toner Life (Col)	18k (5%)	24k (6%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51 / 41	45
First Copy Time (B/W/ Col)	4.1/5.7 / 4.7/6.7	5.2/ 6.8
Max. Original Size	A3	A3
Max. Qty. Select	999	999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Toshiba
Model	MX-5112N / MX-4112N	e-Studio 4520c
Document Feeder	**Opt**	**Opt**
Type	DSPF / RSPF	RADF
Capacity (sheets)	150 / 100	100
Paper weight (gsm) 1-sided	35-128	35-157
Paper weight (gsm) 2-sided	50-128 / 50-105	50-157
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51 / 41	45
Print Resolution (dpi)	1,200 x 1,200	600 x 600
Postscript	Opt	Std
PCL	Std (PCL6)	Std (PCL6)
XPS	Opt	Std
Printer Std. Mem.	3 GB (shared)	1.5 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	1.5 GB (shared)
Gigabit Ethernet	Std	No
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3, G3
PC-Fax	Opt	Opt
i-Fax	Opt	Std
Fax Broadcast	500	400
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col)	RSPF 51 / DSPF 75	57
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN	Email, SMB, FTP, I-Fax, HDD, URL, TWAIN
Functionality	Sharpdesk	Opt PageScope Workware
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	1000/2000/2000
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	No/Yes/No
Hole Punch	Yes	No/Yes/Yes

Strengths of MX-5112N / MX-4112N	Strengths of Toshiba e-studio 4520c
✓ Std. document filing	✓ More std. paper capacity
✓ More max. paper cassettes	✓ Heavier paper support (trays, bypass, duplex, and 1-sided/2-sided document feeder)
✓ Higher max. paper capacity	✓ Longer toner life (colour)
✓ Lighter paper support (trays & bypass)	✓ Std. PS and XPS
✓ More memory	✓ Std. i-Fax
✓ Larger HDD	
✓ Smaller footprint (with RSPF)	
✓ Longer toner life (B/W)	
✓ Faster output (MX-5112N only)	
✓ Faster first copy time (B/W & colour)	
✓ Higher capacity document feeder (DSPF)	
✓ Higher print resolution	
✓ Std. Gigabit Ethernet	
✓ Faster scan speed (via DSPF)	
✓ More fax broadcasts	
✓ Higher capacity finisher	

■ Sharp MX-5112N / MX-4112N vs. Toshiba e-Studio 4520c PRO

Manufacturer	Sharp		Toshiba
Model	MX-5112N / MX-4112N		e-Studio 4520c PRO
Launch Date	May. 11		Dec 2008
Also Sold As	N/A		N/A
Multifunctionality	**Std**		**Std**
Network Printer	Std		Std
Network Scanning	Std		Std
Fax	Opt		Opt
Document Filing	Std		No
Base Engine	Desktop		Desktop
Paper Max. Size	A3W		A3W
Total Cassettes Std.	2		2
Total Cassettes Max.	5		4
Total Sheets Std.	1,100		1,200
Total Sheets Max.	5,600		3,700
No of sheets (Bypass)	100		100
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256		64-256/ 64-280
Duplex	Std (60-220)		Std (INA-256)
Warm up time (secs)	34	30	30 from lower power mode
Std. Mem. Mb	3 GB (shared)		1.5 GB (shared)
Max. Mem. Mb	3 GB (shared)		1.5 GB (shared)
Hard Drive	Std (160 GB)		Std (80 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952		699 x 862 x 759
Machine Size (WxDxH) DSPF	643 x 761 x 966		N/A
Toner Life (B/W)	40k (5%)		29k (6%)
Toner Life (Col)	18k (5%)		24k (6%)
Copier	**Std**		**Std**
Copy/min. (cpm) (B/W/ Col)	51	41	45
First Copy Time (B/W/ Col)	4.1/5.7	4.7/6.7	5.2/ 6.8
Max. Original Size	A3		A3
Max. Qty. Select	999		999
Copy Resolution (dpi)	9,600 (equivalent) x 600		600 x 600
Zoom Range	25-400%		25-400%

Manufacturer	Sharp		Toshiba
Model	MX-5112N / MX-4112N		e-Studio 4520c PRO
Document Feeder	**Opt**		**Opt**
Type	DSPF	RSPF	RADF
Capacity (sheets)	150	100	100
Paper weight (gsm) 1-sided	35-128		35-157
Paper weight (gsm) 2-sided	50-105	50-128	50-157
Network Printer	**Std**		**Std**
Print/min. (ppm) (B/W/ Col)	51	41	45
Print Resolution (dpi)	1,200 x 1,200		600 x 600
Postscript	Opt		Std
PCL	Std (PCL6)		No
XPS	Opt		No
Printer Std. Mem.	3 GB (shared)		1.5 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)		1.5 GB (shared)
Gigabit Ethernet	Std		Std
USB	Std		Std
Fax	**Opt**		**Opt**
Type	Super G3		Super G3, G3
PC-Fax	Opt		Opt
i-Fax	Opt		Std
Fax Broadcast	500		400
Network Scanning	**Std**		**Std**
Resolution (dpi)	600		600
Scan Speed (ipm) (B/W/ Col)	RSPF 51	DSPF 75	57
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN		Email, SMB, FTP, I-Fax, HDD, URL, TWAIN
Functionality	Sharpdesk		Opt PageScope Workware
Finishing	**Opt**		**Opt**
No of Finisher Sheets	500/1000/4000/4000		1000/2000/2000
Sheets Stapled	50		50
Saddle Stitch	No/Yes/No/Yes		No/Yes/No
Hole Punch	Yes		No/Yes/Yes

Strengths of MX-5112N / MX-4112N	Strengths of Toshiba e-studio 4520c PRO
✓ Std. document filing	✓ Larger std. paper capacity
✓ More max. paper cassettes	✓ Heavier paper support (trays, bypass, duplex, and 1-sided/2-sided document feeder)
✓ Higher max. paper capacity	✓ Longer toner life (colour)
✓ Lighter paper support (trays & bypass)	✓ Std. PS
✓ More memory	✓ Std. i-Fax
✓ Larger HDD	
✓ Smaller footprint (with RSPF)	
✓ Longer toner life (B/W)	
✓ Faster output (MX-5112N only)	
✓ Std. PCL and opt XPS	
✓ Faster first copy time (B/W & colour)	
✓ Higher capacity document feeder (DSPF)	
✓ Higher print resolution	
✓ Faster scan speed (via DSPF)	
✓ More fax broadcasts	
✓ Higher capacity finisher	

■ Sharp MX-5112N / MX-4112N vs. Kyocera TASKalfa 400ci

Manufacturer	Sharp	Kyocera
Model	MX-5112N / MX-4112N	TASK alpha 400ci
Launch Date	May. 11	Jan. 09
Also Sold As	N/A	N/A
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Std
Fax	Opt	Opt
Document Filing	Std	Std
Base Engine	Desktop	Console
Paper Max. Size	A3W	A3
Total Cassettes Std.	2	2
Total Cassettes Max.	5	4
Total Sheets Std.	1,100	1,100
Total Sheets Max.	5,600	4,100
No of sheets (Bypass)	100	100
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	60-220/ 60-220
Duplex	Std (60-220)	Std (60-220)
Warm up time (secs)	34 / 30	45
Std. Mem. Mb	3 GB (shared)	2 GB (shared)
Max. Mem. Mb	3 GB (shared)	2 GB (shared)
Hard Drive	Std (160 GB)	Std (160 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	605 x 680 x 745
Machine Size (WxDxH) DSPF	643 x 761 x 966	
Toner Life (B/W)	40k (5%)	25k (5%)
Toner Life (Col)	18k (5%)	18k (5%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51 / 41	40
First Copy Time (B/W/ Col)	4.1/5.7 / 4.7/6.7	5.3/6.9
Max. Original Size	A3	A3
Max. Qty. Select	999	999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Kyocera
Model	MX-5112N / MX-4112N	TASK alpha 400ci
Document Feeder	**Opt**	**Opt**
Type	DSPF / RSPF	DSPF / RADF
Capacity (sheets)	150 / 100	100
Paper weight (gsm) 1-sided	35-128	45-160
Paper weight (gsm) 2-sided	50-128 / 50-105	INA
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51 / 41	40
Print Resolution (dpi)	1,200 x 1,200	600 x 600
Postscript	Opt	Std (KPDL3)
PCL	Std (PCL6)	Std (PCL6)
XPS	Opt	Std
Printer Std. Mem.	3 GB (shared)	2 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	2 GB (shared)
Gigabit Ethernet	Std	Opt
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3
PC-Fax	Opt	Opt
i-Fax	Opt	Opt
Fax Broadcast	500	300
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col)	RSPF 51 / DSPF 75	100
Destinations	HDD, USB, PC, SMB, Email, SMB, FTP, I-Fax, email, FTP, TWAIN	HDD, TWAIN
Functionality	Sharpdesk	Std ScanSoft PaperPort Opt KYOcapture
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	1000/3250
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	No/Yes(Opt)
Hole Punch	Yes	No/Yes

Strengths of MX-5112N / MX-4112N	Strengths of Kyocera TASKalfa 400ci
✓ Larger max. paper size ✓ More max. paper cassettes ✓ Higher max. paper capacity ✓ Heavier paper support (bypass) ✓ Lighter paper support (bypass and document feeder: 1-sided) ✓ Faster warm up time ✓ More memory ✓ Longer toner life (B/W) ✓ Faster output ✓ Faster first copy time (B/W & colour) ✓ Higher capacity document feeder (DSPF) ✓ Higher print resolution ✓ Std. Gigabit Ethernet ✓ More fax broadcasts ✓ Higher capacity finisher	✓ Heavier paper support (document feeder: 1-sided) ✓ Smaller footprint ✓ Std. PS & XPS ✓ Faster scan speed

■ Sharp MX-5112N / MX-4112N vs. Kyocera TASKalfa 500ci

Manufacturer	Sharp	Kyocera
Model	MX-5112N / MX-4112N	TASK alpha 500ci
Launch Date	May. 11	Jan. 09
Also Sold As	N/A	N/A
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Std
Fax	Opt	Opt
Document Filing	Std	Std
Base Engine	Desktop	Console
Paper Max. Size	A3W	A3
Total Cassettes Std.	2	2
Total Cassettes Max.	5	4
Total Sheets Std.	1,100	1,100
Total Sheets Max.	5,600	4,100
No of sheets (Bypass)	100	100
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	60-220/ 60-220
Duplex	Std (60-220)	Std (60-220)
Warm up time (secs)	34 / 30	45
Std. Mem. Mb	3 GB (shared)	2 GB (shared)
Max. Mem. Mb	3 GB (shared)	2 GB (shared)
Hard Drive	Std (160 GB)	Std (160 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	605 x 680 x 745
Machine Size (WxDxH) DSPF	643 x 761 x 966	
Toner Life (B/W)	40k (5%)	25k (5%)
Toner Life (Col)	18k (5%)	18k (5%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51/51 / 41/41	50/40
First Copy Time (B/W/ Col)	4.1/5.7 / 4.7/6.7	4.9/6.9
Max. Original Size	A3	A3
Max. Qty. Select	999	999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Kyocera
Model	MX-5112N / MX-4112N	TASK alpha 500ci
Document Feeder	**Opt**	**Opt**
Type	DSPF / RSPF	DSPF / RADF
Capacity (sheets)	150 / 100	100
Paper weight (gsm) 1-sided	35-128	45-160
Paper weight (gsm) 2-sided	50-128 / 50-105	INA
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51/51 / 41/41	50/40
Print Resolution (dpi)	1,200 x 1,200	600 x 600
Postscript	Opt	Std (KPDL3)
PCL	Std (PCL6)	Std (PCL6/5e)
XPS	Opt	Std
Printer Std. Mem.	3 GB (shared)	2 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	2 GB (shared)
Gigabit Ethernet	Std	Opt
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3
PC-Fax	Opt	Opt
i-Fax	Opt	Opt
Fax Broadcast	500	300
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col)	RSPF 51 / DSPF 75	100
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN	Email, SMB, FTP, I-Fax, HDD, TWAIN
Functionality	Sharpdesk	Std ScanSoft PaperPort Opt KYOcapture
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	1000/3250
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	No/Yes (Opt)
Hole Punch	Yes	No/Yes

Strengths of MX-5112N / MX-4112N	Strengths of Kyocera TASKalfa 500ci
✓ Larger max. paper size ✓ More max. paper cassettes ✓ Higher max. paper capacity ✓ Heavier paper support (bypass) ✓ Lighter paper support (bypass and document feeder: 1-sided) ✓ Faster warm up time ✓ More memory ✓ Smaller footprint ✓ Longer toner life (B/W) ✓ Higher capacity document feeder (DSPF) ✓ Faster output (MX-5112N: both, MX-4112N: colour) ✓ Faster first copy time (B/W & colour) ✓ Higher print resolution ✓ Std. Gigabit Ethernet ✓ More fax broadcasts ✓ Higher capacity finisher	✓ Heavier paper support (document feeder: 1-sided) ✓ Smaller footprint ✓ Std. PS & XPS ✓ Faster scan speed

■ Sharp MX-5112N / MX-4112N vs. Xerox WorkCentre 7545

Manufacturer	Sharp	Xerox
Model	MX-5112N / MX-4112N	WorkCentre 7545
Launch Date	May. 11	Sep. 10
Also Sold As	N/A	N/A
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Std
Fax	Opt	Opt
Document Filing	Std	No
Base Engine	Desktop	Console
Paper Max. Size	A3W	A3W
Total Cassettes Std.	2	2
Total Cassettes Max.	5	5
Total Sheets Std.	1,100	1,140
Total Sheets Max.	5,600	5,140
No of sheets (Bypass)	100	100
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	60-256/55-300
Duplex	Std (60-220)	Std (INA)
Warm up time (secs)	34 / 30	165
Std. Mem. Mb	3 GB (shared)	2 GB (shared)
Max. Mem. Mb	3 GB (shared)	2 GB (shared)
Hard Drive	Std (160 GB)	Std (160 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	1,064 x 685 x 1,127
Machine Size (WxDxH) DSPF	643 x 761 x 966	N/A
Toner Life (B/W)	40k (5%)	26k (5%)
Toner Life (Col)	18k (5%)	15k (5%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51 / 41	45
First Copy Time (B/W/ Col)	4.1/5.7 / 4.7/6.7	6.6/7.8
Max. Original Size	A3	A3
Max. Qty. Select	999	9,999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Xerox
Model	MX-5112N / MX-4112N	WorkCentre 7545
Document Feeder	**Opt**	**Std**
Type	DSPF / RSPF	RADF
Capacity (sheets)	150 / 100	110
Paper weight (gsm) 1-sided	35-128	50-128
Paper weight (gsm) 2-sided	50-128 / 50-105	INA
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51 / 41	45
Print Resolution (dpi)	1,200 x 1,200	600 x 600
Postscript	Opt	Std
PCL	Std (PCL6)	Std (PCL6/5c)
XPS	Opt	Std
Printer Std. Mem.	3 GB (shared)	2 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	2 GB (shared)
Gigabit Ethernet	Std	Std
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3
PC-Fax	Opt	No
i-Fax	Opt	Std
Fax Broadcast	500	400
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col)	RSPF 51 / DSPF 75	70
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN	Email, SMB, FTP, I-Fax, HDD, URL, TWAIN
Functionality	Sharpdesk	Opt Scan to PC Desktop, SMARTsend, ScanFlowStore
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	2000/2000
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	Yes
Hole Punch	Yes	Yes

Strengths of MX-5112N / MX-4112N	Strengths of Xerox WorkCentre 7545
✓ Std. document filing	✓ Heavier paper support (trays & bypass)
✓ Higher max. paper capacity	✓ More max. qty select
✓ Lighter paper support (document feeder: 1-sided)	✓ Std. document feeder
✓ Faster warm up time	✓ Std. PS & XPS
✓ More memory	✓ Std. i-Fax
✓ Smaller footprint (with RSPF)	
✓ Longer toner life	
✓ Faster output (MX-5112N only)	
✓ Faster first copy time	
✓ Higher capacity document feeder (DSPF)	
✓ Higher print resolution	
✓ More fax broadcasts	
✓ Faster scan speed (via DSPF)	
✓ Opt. PC-Fax	
✓ Higher capacity finisher	

■ Sharp MX-5112N / MX-4112N vs. Xerox WorkCentre 7556

Manufacturer	Sharp	Xerox
Model	MX-5112N / MX-4112N	WorkCentre 7556
Launch Date	May. 11	Sep. 10
Also Sold As	N/A	N/A
Multifunctionality	**Std**	**Std**
Network Printer	Std	Std
Network Scanning	Std	Std
Fax	Opt	Opt
Document Filing	Std	No
Base Engine	Desktop	Console
Paper Max. Size	A3W	A3W
Total Cassettes Std.	2	2
Total Cassettes Max.	5	5
Total Sheets Std.	1,100	1,140
Total Sheets Max.	5,600	5,140
No of sheets (Bypass)	100	100
Paper weight (gsm) (Trays/Bypass)	60-220/ 55-256	60-220/ 60-220
Duplex	Std (60-220)	Std (INA)
Warm up time (secs)	34 / 30	165
Std. Mem. Mb	3 GB (shared)	2 GB (shared)
Max. Mem. Mb	3 GB (shared)	2 GB (shared)
Hard Drive	Std (160 GB)	Std (160 GB)
Machine Size (WxDxH) RSPF	643 x 761 x 952	1,064 x 685 x 1,127
Machine Size (WxDxH) DSPF	643 x 761 x 966	N/A
Toner Life (B/W)	40k (5%)	26k (5%)
Toner Life (Col)	18k (5%)	15k (5%)
Copier	**Std**	**Std**
Copy/min. (cpm) (B/W/ Col)	51/51 / 41/41	55/50
First Copy Time (B/W/ Col)	4.1/5.7 / 4.7/6.7	5.8/7.2
Max. Original Size	A3	A3
Max. Qty. Select	999	9,999
Copy Resolution (dpi)	9,600 (equivalent) x 600	600 x 600
Zoom Range	25-400%	25-400%

Manufacturer	Sharp	Xerox
Model	MX-5112N / MX-4112N	WorkCentre 7556
Document Feeder	**Opt**	**Std**
Type	DSPF / RSPF	RADF
Capacity (sheets)	150 / 100	110
Paper weight (gsm) 1-sided	35-128	50-128
Paper weight (gsm) 2-sided	50-128 / 50-105	INA
Network Printer	**Std**	**Std**
Print/min. (ppm) (B/W/ Col)	51/51 / 41/41	55/50
Print Resolution (dpi)	1,200 x 1,200	600 x 600
Postscript	Opt	Std
PCL	Std (PCL6)	Std (PCL6/5c)
XPS	Opt	Std
Printer Std. Mem.	3 GB (shared)	2 GB (shared)
Printer Max. Mem	4 GB (opt 1 GB)	2 GB (shared)
Gigabit Ethernet	Std	Std
USB	Std	Std
Fax	**Opt**	**Opt**
Type	Super G3	Super G3
PC-Fax	Opt	No
i-Fax	Opt	Std
Fax Broadcast	500	400
Network Scanning	**Std**	**Std**
Resolution (dpi)	600	600
Scan Speed (ipm) (B/W/ Col)	RSPF 51 / DSPF 75	70
Destinations	HDD, USB, PC, SMB, email, FTP, TWAIN	Email, SMB, FTP, I-Fax, HDD, URL, TWAIN
Functionality	Sharpdesk	Opt Scan to PC Desktop, SMARTsend, ScanFlowStore
Finishing	**Opt**	**Opt**
No of Finisher Sheets	500/1000/4000/4000	2000/2000
Sheets Stapled	50	50
Saddle Stitch	No/Yes/No/Yes	Yes
Hole Punch	Yes	Yes

Strengths of MX-5112N / MX-4112N	Strengths of Xerox WorkCentre 7556
✓ Std. document filing	✓ Heavier paper support (trays & bypass)
✓ Higher max. paper capacity	✓ Faster output (B/W)
✓ Lighter paper support (document feeder: 1-sided)	✓ More max. qty select
✓ Faster warm up time	✓ Std. document feeder
✓ More memory	✓ Std. PS & XPS
✓ Smaller footprint (with RSPF)	✓ Std. i-Fax
✓ Longer toner life	
✓ Faster output (MX-5112N: colour only)	
✓ Faster first copy time	
✓ Higher capacity document feeder (DSPF)	
✓ Higher print resolution	
✓ More fax broadcasts	
✓ Faster scan speed (via DSPF)	
✓ Opt. PC-Fax	
✓ Higher capacity finisher	

Specifications

■ Basic Specifications

Base Engine	MX-5112N	MX-4112N
Simplex to Simplex (A4)	51 ppm	41 ppm
Simplex to Simplex (A3)	23 ppm	19 ppm
Photoconductor type	OPC(Diameter: Black φ 30 mm, Colour: φ 30 mm x3)	
Record method	Electronic Photo (Laser)	
Development method	Dry-Type Dual-Component magnetic brush development	
Charge method	Charged saw-Tooth method	
Transfer method	Middle transfer belt	
Cleaning method	Counter blade	
Fusing method	Belt fusing	
Warm up time	34 seconds (Result may change depending on conditions.)	30 seconds
Pre-heat	Yes	
Resolution	Copy: 600 x 600 dpi, 9,600 (equivalent) x 600 dpi. Print: 600 x 600 dpi, 1,200 x 1,200 dpi, 9,600 (equivalent) x 600 dpi	
Printable area	A3 wide: 297 x 420 mm A3: 293 x 413 mm B4: 253 x 357 mm A4: 206 x 290 mm B5: 178 x 250 mm A5: 144 x 203 mm Postcard: 96 x 141 mm	
Power switch	2 (Primary switch: front of main unit. Front cover needs to be opened; Secondary switch: on the operation panel)	
PM cycle	150k	100k
Maximum print volume	150k / 50k	
Average print volume (reference)	15k	
MCBJ	20k	
MCBF	80k	
External dimensions (W x D x H)	RSPF: 643 x 761 x 952 mm (incl. Bypass tray) DSPF: 643 x 761 x 966 mm (incl. Bypass tray)	
Occupied space (W x D) (When the bypass tray is extended.)	982 x 761 mm	
Weight (without toner, developer, and heater)	RSPF: 118.5 kg DSPF: 126.5 kg	RSPF: 117.9 kg DSPF: 125.9 kg

Controller Board		
CPU	ARM11 600 MHz / ARM9 400 MHz	
PCL accelerator	MPC8535 Power QUICC e500: 1250 MHz	
Interface		
IEEE1284 Parallel	No	
Ethernet	1 port	
	Interface	10Base-T, 100Base-TX, 1000Base-T
	Support Protocol	TCP/IP (IPv4, IPv6), IPX/SPX, EtherTalk, NET BEUI
USB 2.0 (high speed) (Host) *The USB will be disabled by the sim.	2 port (Front/ Rear)	
USB 2.0 (high speed) (Device)	1 port	
USB-HUB (Host)	Internal: 4 ports (Port 3 and 4 are for internal use) 1) For front USB port 2) For rear USB port	
Memory slot	4 (2 empty slot)	

Power Consumption	
Maximum rated power consumption	1.84 kW (200 to 240 V)
TEC value specified by New International Energy Star	MX-5112N: 4.12 kWh MX-4112N: RSPF: 3.53 kWh, DSPF: 3.55 kWh

Operation Panel (Colour LCD: 10.1 inch W-SVGA)	
Form	Dot matrix LCD, touch panel
Display dot number	1,024 x 600 dots (W-SVGA)
LCD drive display area	222.72 x 125.28 mm
LCD backlight	LED, backlight method
LCD contrast adjust	Yes
Angle/position adjustment	Yes (Tilt mechanism)

Original Scanning Resolution			
Scan resolution (Copy Mode)		B/W	Colour
	Original cover	600 x 600 dpi / 600 x 400 dpi (Default)	600 x 600 dpi
	RSPF	600 x 600 dpi (Default)	600 x 600 dpi
	DSPF	600 x 600 dpi / 600 x 400 dpi (Default)	600 x 600 dpi
Exposure lamp	White LED		

Paper Input	
Details on Tray 1 (feeding 500 sheets)	
Paper size	A3, B4, A4, A4R, B5, B5R, A5R, 8K,16K,16KR
Changing of paper size	Switched by users
Paper type setting	Yes
Default paper size setting	A4
Paper type/weight	Plain paper: 60 – 105 g/m^2, Heavy Paper 106 – 220 g/m^2
Paper capacity	500 sheets (80 g/m^2)
Paper type	Plain paper, pre-printed paper (not including backing paper), recycled paper, letterhead, pre-punched paper, coloured paper, heavy paper Users can set up all of these paper types.
Paper size detection	Manually detect: A3, B4, A4, A4R, B5, B5R
Detection of remaining paper	Level detection (None and 3 levels: 100%, 67%, 33%, and none)

Details on Tray 2 (feeding 500 sheets)	
Paper size	A3, B4, A4, A4R, B5, B5R, A5R, 8K,16K,16KR
Changing of paper size	Switched by users
Paper type setting	Yes
Default paper size setting	A3
Paper type/weight	Plain paper: 60 – 105 g/m^2, Heavy Paper 106 – 220 g/m^2
Paper capacity	500 sheets (80 g/m^2)
Paper type	Plain paper, pre-printed paper (not including backing paper), recycled paper, letterhead, pre-punched paper, coloured paper, heavy paper Users can set up all of these paper types.
Paper size detection	Manually detect: A3, B4, A4, A4R, B5, B5R
Detection of remaining paper	Level detection (None and 3 levels: 100%, 67%, 33%, and none)

Bypass		
Paper size	A3W, A3, B4, A4, A4R, B5, B5R, A5R, 8K,16K, 16KR Envelope (Monarch/ Com-10/ DL/ C5) Custom Size (Tab paper is limited to A4; tab width12 mm - 20 mm)	
Changing of paper size	Auto	
Paper type setting	Yes	
Paper type/weight	Thin Paper: 55 – 59 g/m^2 Plain paper: 60 – 105 g/m^2 Heavy Paper: 106 – 256 g/m^2 Envelope: 75 - 90 g/m^2 Postcard, OHP, Label Paper, Tab Paper, Glossy Paper	
Paper capacity	Standard paper	100 sheets
	Postcard	20 sheets
	Envelope	20 sheets
	OHP	20 sheets
	Heavy paper	40 sheets
	Tab paper	20 sheets
	Glossy paper	1 sheet
	Other special paper	1 sheet
Paper type	Plain paper, pre-printed paper, recycled paper, letterhead, pre-punched paper, coloured paper, heavy paper, thin paper, label paper, OHP, tab paper, postcard, envelope, glossy paper. Users can set up all of these paper types.	
Paper size detection	Auto detect: A3W, A3, B4, A4, A4R, B5, B5R, A5R	

■ Peripheral devices specifications

RSPF (Reversing Single Pass Feeder) (MX-RP14)				
Scan speed		B/W (A4)		Colour (A4)
Copy	1-sided:	51 sheets/minute (600 x 600 dpi)		51 sheets/minute (600 x 600 dpi)
	2-sided:	20 pages/minute (600 x 600 dpi)		20 pages/minute (600 x 600 dpi)
Fax /Internet Fax	1-sided:	51 sheets/minute (200 x 200 dpi)		N/A
	2-sided:	20 pages/minute (200 x 200 dpi)		
Scanner	1-sided:	51 sheets/minute (200 x 200 dpi)		51 sheets/minute (200 x 200 dpi)
	2-sided:	20 pages/minute (200 x 200 dpi)		20 pages/minute (200 x 200 dpi)
Document setup direction		Upward standard (1 to N feeding standard)		
Document standard location		Centre standard (rear one-side standard for random feeding)		
Document transport method		Sheet-through method		
Document sizes		Std. type	AB type -1, 2, 4, 5: A3, B4, A4, A4R, B5, B5R, A5 AB type -3: A3, B4, A4, A4R, A5	
		Long paper	1,000 mm (Mono 2 levels only)	
Document weights		1-sided: Thin paper: 35 - 49 g/m^2 Plain paper: 50 - 128 g/m^2 *Thin paper mode (29 sheets/minute A4 is set up for the thin paper. 2-sided: 50 - 105 g/m^2		
Document carrying capacity		Maximum: 100 sheets (80 g/m^2), or maximum: 13 mm		
Types of document that may not be transported		OHP, second original drawing, tracing paper, carbon paper, thermal paper, wrinkled / broken / torn document, document with cuts and pastes, documents printed by an ink ribbon, and perforated document except 2-punched / 3-punched (Perforated document by punch unit is allowed.)		
Paper detection		Yes		

DSPF (Duplex Single Pass Feeder) (MX-EF10)				
Scan speed		B/W (A4)		Colour (A4)
Copy	1-sided:	75 sheets/minute (600 x 600 dpi)		51 sheets/minute (600 x 600 dpi)
	2-sided:	51 pages/minute (600 x 600 dpi)		51 pages/minute (600 x 600 dpi)
Fax /Internet Fax	1-sided:	75 sheets/minute (200 x 200 dpi)		N/A
	2-sided:	75 pages/minute (200 x 200 dpi)		
Scanner	1-sided:	75 sheets/minute (200 x 200 dpi)		75 sheets/minute (200 x 200 dpi)
	2-sided:	75 pages/minute (200 x 200 dpi)		75 pages/minute (200 x 200 dpi)
Document setup direction		Upward standard (1toN feeding standard)		
Document standard location		Centre standard (Rear one-side standard for random feeding)		
Document transport method		Sheet-through method		
Document sizes		Std. type	AB type -1, 2, 4, 5: A3, B4, A4, A4R, B5, B5R, A5 AB type -3: B4, A4, A4R, A5	
		Long paper	1,000 mm (Mono 2 levels only)	
Document weights		1-sided: Thin paper: 35 - 49 g/m^2 Plain paper: 50 - 128 g/m^2 *Thin paper mode (45 sheets/minute (600 x 400 dpi), 33 sheets/minute (600 x 600dpi), A4 is set up for the thin paper. 2-sided: 50 - 128 g/m^2		
Document carrying capacity		Maximum: 150 sheets (80 g/m^2), or maximum: 19.5 mm		
Types of document that may not be transported		OHP, second original drawing, tracing paper, carbon paper, thermal paper, wrinkled / broken / torn document, document with cuts and pastes, documents printed by an ink ribbon, and perforated document except 2-punched / 3-punched (Perforated document by punch unit is allowed.)		
Paper detection		Yes		

Stand with 500-Sheet Paper Drawer (MX-DE15)		
Paper sizes	A3, B4, A4, A4R, B5, B5R, A5R, 8K,16K, 16KR	
Paper type/weight	Plain paper: 60 - 105 g/m^2 Heavy paper: 106 - 220 g/m^2	
Paper capacity	500 sheets (80 g/m^2)	
Paper types	Plain paper, pre-printed paper (not including backing papers), recycled paper, letterhead, pre-punched paper, coloured paper, and heavy paper. Users can set up these types of paper.	
Detection of paper size	Auto detection Auto-AB	A3, B4, A4, A4R, B5, B5R
Dimensions	W 717.5 x D 693 x H 301 mm	
Weight	Approx. 18.5 kg	

Stand with 2 x 500-Sheet Paper Drawer (MX-DE16)		
Paper sizes	A3, B4, A4, A4R, B5, B5R, A5R, 8K,16K, 16KR	
Paper type/weight	Plain paper: 60 - 105g/m^2 Heavy paper: 106 – 220 g/m^2	
Paper capacity	500 sheets x 2 (80 g/m^2)	
Paper types	Plain paper, pre-printed paper (not including backing papers), recycled paper, letterhead, pre-punched paper, coloured paper, and heavy paper. Users can set up these types of paper.	
Detection of paper size	Auto detection Auto-AB	A3, B4, A4, A4R, B5, B5R
Dimensions	W 717.5 x D 693 x H 301 mm	
Weight	Approx. 22.9 kg	

Large capacity tray (MX-LC11)	
Paper sizes	A4, B5
Paper type/weight	Plain paper: 60 – 105 g/m^2
Paper capacity	3,500 sheets (80 g/m^2)
Paper types	Plain paper, pre-printed paper (not including backing papers), recycled paper, letterhead, pre-punched paper, and coloured paper Users can set up these types of paper.
Detection of paper size	A4, B5 *Detection size can be set by simulation.
Dimensions	W 370 x D 575 x H 519.5 mm
Weight	Approx. 29.2 kg

Exit Tray Unit (MX-TRX2)	
Tray capacity	100 sheets with 80 g/m^2
Ejected paper size/ type	Any paper except envelope, tab paper, and glossy paper
Dimensions	W 314 x D 405 x H 52 mm
Weight	Approx. 0.93 kg

Exit Tray Cabinet Unit (MX-TU13)	
Dimensions	W 468 x D 618 x H 191 mm
Weight	Approx. 1.18 kg

Paper Pass Unit (MX-RB11)	
Dimensions	W 550 x D 526 x H 175 mm
Weight	Approx. 5.7 kg

Inner Finisher (MX-FNX9)		
Ejectable paper size	A3W, A3, B4, A4, A4R, B5, B5R, A5R, Envelope(Monarch / Com-10 / DL / C5)	
Paper type/weight	Thin paper: 55 – 59 g/m^2 Plain paper: 60 - 105 g/m^2 Heavy paper: 106 – 256 g/m^2	
Mode type	Non-stapled, stapled	
Paper sizes allowed for offset	A3, B4, A4, A4R, B5	
Offset quantity	30 mm	
Stored sheets (for ejection)	Non-stapled: 500 sheets (Max. 71 mm) A4, A4R, B5, B5R, A5R 250 sheets (Max. 35.5 mm) A3W, A3, B4 Stapled: 30 bundles or 500 sheets (Max. 71 mm) A4, A4R, B5 30 bundles or 250 sheets (Max. 35.5 mm) A3, B4	
Sizes allowed for stapling	1-point at front (Flat)	A3, B4, A4, A4R, B5
	1-point at back (Flat)	A3, B4, A4, A4R, B5
	2-point stitching	A3, B4, A4, A4R, B5
Number of sheets to be stitched	A4, A4R, B5; 50 sheets (80 g/m^2)	
	A3, B4: 30 sheets (80 g/m^2)	
	Stapling a mixture of types/sizes: 30 sheets *Staple a mixture of types/ sizes (same width) is available.	
Dimensions	W 440 x D 595 x H 205 mm	
Footprint dimensions	With tray extended: W 640 x D 595 x H 205 mm Clearance required: 140 mm	
Weight	Approx. 13 kg	

1K Saddle Stitch Finisher (MX-FN10)		
Ejectable paper size	A3W, A3, B4, A4, A4R, B5, B5R, A5R, Envelope (Monarch / Com-10 / DL / C5)	
Paper type/weight	Thin paper: 55 – 59 g/m^2 Plain paper: 60 - 105 g/m^2 Heavy paper: 106 – 256 g/m^2	
Mode type	Non-stapled, stapled, saddle stitch/ bi-folding	
Paper sizes allowed for offset	A3, B4, A4, A4R, B5, B5R	
Offset quantity	Paper width: 196 mm or more: 30 mm 195 mm or less: 20 mm	
Stored sheets (for ejection)	Non-stapled: 500 sheets (Max. 94 mm) A3W*, A3, B4, A5R 1,000 sheets (Max.175 mm) A4, A4R, B5, B5R * Not guaranteed 101 pages or more of A3W. Stapled: 50 bundles or 500 sheets (Max. 94 mm) A3, B4 50 bundles or 1,000 sheets (Max.175 mm) A4, A4R, B5, B5R	
Sizes allowed for stapling	1-point at front (Flat)	A3, B4, A4, A4R, B5, B5R
	1-point at back (Flat)	A3, B4, A4, A4R, B5, B5R
	2-point stitching	A3, B4, A4, A4R, B5, B5R
Number of sheets to be stitched	A4, A4R, B5, B5R: 50 sheets (80 g/m^2)	
	A3, B4: 25 sheets (80 g/m^2)	
	Stapling a mixture of types/sizes (same width) is available.	
Saddle stitch method	2-point centre stitch and bi-folding	
Number of paper to be stitched	15 sheets (1 sheet of 209g/m^2 + 14 sheets of 80 g/m^2)	
Loading number for saddle stitch	1-5 sheets: 20 bundles 6-10 sheets: 15 bundles 11-15 sheets: 10 bundles	
Dimensions	W 497 x D 631 x H 988 mm	
Footprint dimensions	With tray extended: requires 661 mm from the left side of the main unit.	
Weight	Approx. 40 kg	

4K Finisher (MX-FN11)			
Ejectable paper size		A3W, A3, B4, A4, A4R, B5, B5R, A5R, Envelope (Monarch / Com-10 / DL / C5)	
Paper type/weight		Thin paper: 55 – 59 g/m^2 Plain paper: 60 - 105 g/m^2 Heavy paper: 106 – 256 g/m^2	
Mode type		Non-stapled, stapled	
Paper sizes allowed for offset		A3, B4, A4, A4R, B5	
Offset quantity		30 mm	
Stored sheets	Upper tray	Non-stapled: 1,550 sheets A4, B5, A5R 650 sheets A3W, A3, B4, A4R, B5R Stapled: 100 bundles or 1,550 sheets A4, B5, A5R 50 bundles or 650 sheets A3, B4, A4R, B5R	
	Lower tray	Non-stapled: 2,450 sheets A4, B5 1,700 sheets A5R 650 sheets A3W, A3, B4, A4R, B5R Stapled: 100 bundles or 1,550 sheets A4, B5 50 bundles or 650 sheets A3, B4, A4R	
Sizes allowed for stapling		1-point at front (Flat)	A3, B4, A4, A4R, B5
		1-point at back (Flat)	A3, B4, A4, A4R, B5
		2-point stitching	A3, B4, A4, A4R, B5
Number of sheets to be stitched		A4, B5: 50 sheets (80 g/m^2) A3, B4, A4R, and Mixed staple: 30 sheets (80 g/m^2) *Mixture of staple is allowed for only same width paper.	
Dimensions		W 515 x D 650 x H 1,100 mm	
Foot print dimensions		W 645 x D 650 mm	
Weight		Approx. 45 kg	

4K Saddle Stitch Finisher (MX-FN18)			
Ejectable paper size		A3W, A3, B4, A4, A4R, B5, B5R, A5R, Envelope(Monarch / Com-10 / DL / C5)	
Paper type/weight		Thin paper: 55 – 59 g/m^2 Plain paper: 60 - 105 g/m^2 Heavy paper: 106 – 256 g/m^2	
Mode type		Non-stapled, stapled, saddle stitch/ bi-folding	
Paper sizes allowed for offset		A3, B4, A4, A4R, B5, B5R	
Offset quantity		30 mm	
Stored sheets	Upper tray	1,550 sheets	
	Lower tray	2,450 sheets	
Sizes allowed for stapling		1-point at front (Flat)	A3, B4, A4, A4R, B5, B5R
		1-point at back (Flat)	A3, B4, A4, A4R, B5, B5R
		2-point stitching	A3, B4, A4, A4R, B5, B5R
Number of sheets to be stitched		A4, B5: 50 sheets (80 g/m^2) A3, B4, A4R, and Mixed staple: 30 sheets (80 g/m^2) Max: 2 sheets of 256 g/m^2 + 48 sheets of 90 g/m^2	
Saddle stitch method		2-point centre stitch and bi-folding	
Number of paper to be stitched		15 sheets (1 sheet of 256 g/m^2 + 14 sheets of 90 g/m^2) (1 sheet of 256 g/m^2 + 9 sheets of 105 g/m^2)	
Loading number for saddle stitch		1-5 sheets: 25 bundles 6-10 sheets: 15 bundles 11-15 sheets: 10 bundles	
Dimensions		W 640 x D 641.5 x H 1,100 mm	
Footprint dimensions		W 753 x D 641.5 mm	
Weight		Approx. 73 kg	

Punch Unit MX-PNX1A/C/D (for inner finisher) / MX-PNX5A/C/D (for saddle stitch finisher)/ MX-PNX6A/C/D (for 4K finisher/ 4K saddle stitch finisher)			
Type	For inner finisher	For saddle stitch finisher	For 4K finisher/ saddle stitch finisher
Punch type	2 holes / 4 holes / 4 holes (wide) A punch unit that provides all of these 3 types can be installed.		
Punch paper size	2 holes	A3, A4, A4R, B4, B5, B5R	
	4 holes	A3, A4	
	4 holes(wide)	A3, A4, A4R, B4, B5, B5R	
Paper weight	55 - 256 g/m^2 (not guaranteed for heavy paper (over 129 g/m^2))		
Dimensions	W 105 x D 518 x H 170 mm	W 122 x D 604 x H 248 mm	W 115 x D 600 x H 995 mm
Weight	Approx. 3.5 kg	Approx. 3.5 kg	Approx. 8.5 kg

PS3 Expansion Kit (MX-PK11)	
	Activated by product key
Bundled Item	Product key sheet / CD-ROM / Application number (Pasted on the product key sheet)
CD-ROM	PS screen font (for Windows / Mac)

XPS Expansion Kit (MX-PUX1)	
Packaged items	CD-ROM Installation manual (Described the product key information)
Included software in the CD-ROM	XPS driver Installer

Expansion Memory Board (MX-SM10)	
Memory Module	DDR2-SODIMM
Number of Pins	200
Memory Amount	1 GB
Parity Check	Non-ECC

Fax Expansion Kit (MX-FX11)	
Bundled Items	Fax box/ Modular cord/ Connect parts/ CE Document sheet
Outer colour	Warm white
Dimensions	W 192 x D 52 x H 215 mm
Weight	Approx. 1 kg

Barcode Font Kit (MX-PF10)	
	Activated by product key
Bundled items	Product key sheet / CD-ROM / Installation manual in the above CD-ROM (English / French / Germany / Italian / Swedish) Application number (Pasted on the product key sheet)
Barcode data	Barcode data is already implemented in main unit
CD-ROM	Barcode font for Windows

Stamp Unit (AR-SU1)

Enhanced Compression Kit (MX-EB11)	
Overview	The following function can be supported when board is equipped: High compression PDF
Bundled Items	ACRE board

Internet Fax Expansion Kit (MX-FWX1)	
Packaged items	Product key sheet (Internet Fax) Internet Fax CD-ROM
Included software in the CD-ROM	Internet Fax expansion tool

Sharpdesk License Kit (MX-USX1, USX5, US10, US50, USA0)	
1 license	MX-USX1
5 licenses	MX-USX5
10 licenses	MX-US10
50 licenses	MX-US50
100 licenses	MX-USA0

Application Integration Module (MX-AMX1)	
Packaged items	Instruction manual Product key sheet Sharpdesk CD-ROM Sharpdesk installation guide Sharpdesk serial number (Sharpdesk 1 license, pasted on the product key sheet)
Included software in the CD-ROM	Same as Sharpdesk CD-ROM in the Main Unit

Application Communication Module (MX-AMX2)	
Packaged items	Instruction manual Sharp OSA Utility CD-ROM Application number (pasted on the instruction manual)
Included software in the CD-ROM	Sharp OSA Utility

External Account Module (MX-AMX3)	
Packaged items	Instruction manual Sample application CD-ROM Application number (pasted on the instruction manual)
Included software in the CD-ROM	Sharp OSA Utility

Data Security Kit non-CC Version (MX-FR33U)	
Packaged items	Firmware (FLASH ROM + USB memory) Instruction manual CD-ROM Product key sheet Application number (pasted on the product key sheet)
Instruction manual	American English/ German/ French/ Spanish/ Italian/ Dutch/ Swedish/ Norwegian/ Finnish/ Danish/ Czech/ Polish/ Hungarian/ Greek/ Portuguese/ Slovak/ Russian/ Turkish/ Romanian

Data Security Kit CC Version (MX-FR33)	
Packaged items	Firmware (FLASH ROM + USB Memory) Caution sheet Instruction manual (CD-ROM) Security supplemental sheet Validation label (after acquiring the CC validation) Application number (pasted on the product key sheet) Product key sheet
Instruction manual/ Caution manual	American English/ German/ French/ Spanish/ Italian/ Dutch/ Swedish/ Norwegian/ Finnish/ Danish/ Czech/ Polish/ Hungarian/ Greek/ Portuguese/ Slovak/ Russian/ Turkish
Security supplement sheet	American English
Certification label	Certification labels to be attached to the main unit and outer package. *Bundled/ attached after CC certification is acquired.

Keyboard (MX-KB11)	
Bundled items	Keyboard unit

*Both RSPF/DSPF model for SEN, keyboard is Std. DSPF model for SUK, SEB, SEGA, and SEF: Keyboard is Std.

Mirroring Kit (MX-EB12)	
Bundled items	RAID control board 1 HDD (160 GB)

Web Browsing Expansion Kit (MX-AM10)	
	Activated by product key. Access webpage through MFP operation panel.
Bundled items	CD-ROM Product key sheet

Sharp OSA-Network Scanner Tool License Kit (MX-UN01A, UN05A, UN10A, UN50A, UN1HA)	
1 license	MX-UN01A
5 licenses	MX-UN05A
10 licenses	MX-UN10A
50 licenses	MX-UN50A
100 licenses	MX-UN1HA

Functions

Copy Function		
	B/W	Colour
First copy (original cover)	MX-5112N: 4.1 seconds MX-4112N: 4.7 seconds	MX-5112N: 5.7 seconds MX-4112N: 6.7 seconds
* Best achieved time based on A4 copy, long-edge feeding from 1st paper drawer, when machine is ready, without Auto Colour Mode and Auto Colour Selection. May vary depending on machine conditions and operating environment		
First copy (RSPF)	MX-5112N: 7.0 seconds MX-4112N: 7.7 seconds	MX-5112N: 8.8 seconds MX-4112N: 9.8 seconds
First copy (DSPF)	MX-5112N: 6.7 seconds MX-4112N: 7.4 seconds	MX-5112N: 9.2 seconds MX-4112N: 10.3 seconds
Serial copy	999 pages	
Copy ratios	Same size: 1:1±0.8% AB type: 25%, 50%, 70%, 81%, 86%, 100%, 115%, 122%, 141%, 200%, 400%	
Zoom	25 – 400% (25 – 200% for RSPF/DSPF)	
Preset magnification ratio	4 (Reduction 2/ Enlargement 2)	
XY zoom	Yes	
Exposure mode	Automatic Text, Text/Printed photo, Printed photo, Text/Photo, Photo, Map. Pale-colour document	
Mode of copy original	Effective for Text, Text/Printed photo, Printed photo	
Colour tone enhancement	Effective for Text, Text/Printed photo, Printed photo, Text/Photo, Photo, Map, Pale-colour document	
Manual steps	9 steps	
Toner save mode	B/W: Yes Colour: Yes Sim setting: 3 steps	
RGB adjustment	Yes	
Colour balance	Yes	
Saturation adjustment	Yes	
Brightness adjustment	Yes	
Contrast adjustment	No	
Sharpness adjustment	Yes	
Suppress background	Yes	
Auto colour calibration	Allowed by system settings	
Registration adjustment	Allowed by system settings	
Automatic paper selection	Yes {Mixed size original (Same width/ Different width) supported}	
Automatic magnification selection	Yes {Mixed size original (Same width/ Different width) supported}	
Paper type select	Yes Type setting allowed	
Auto tray switching	Yes	
Rotated copy	Yes Large rotated copy exceeding A4 supported Supported rotated copy on APS/AMS OFF.	
Electronic sort	Yes	
Rotated sort	No	
Job reservation	Yes (99)	
Tray installation priority	Yes	
Program call / registration.	Yes (48, preset 1) (Allowed setting paper type of bypass tray.) (Program name registration to be examined)	
Document paper size input	Yes (Document size registration)	

Copy Function		
Indeterminate paper size input		Yes (Intermediate paper size registration)
2-sided copy direction switch		Yes (makes it possible to switch on 2-sided to 1-sided.)
Preview function		Yes
Notification sound of finished copy job		Yes (Support by soft-SW)
Stop copy when no original		Yes (Support by soft-SW)
Number of copies setting according to page (number of copies setting of each originals)		Yes
Displaying number of scanned original		No
Special Function		
Margin shift		Yes (Right/ Left/ Upper)
Edge/centre, centre + edge/ side erase		Yes
Dual page copy		Yes
Pamphlet copy		Yes
Job build		Yes (setting change items of each bunch)
Tandem copy		Yes (via network)
Cover/inserts		Yes
Tab paper insertion		Yes
Transparency inserts		Yes (inserted paper is automatically selected.)
Multi shot		Yes. 2 in 1, 4 in 1, 8 in 1. (Support expansion setting that multi shot excludes head page. Support combination of pamphlet copy and multi shot. (2 in 1/ 4 in 1 only.) (Borderline, centering, page printing per original page)
Book copy		Yes
Tab copy		Yes
Card shot		Yes
Stamp	Date print	Yes
	Text print	Yes
	Stamp	Yes (stamp/ watermark)
	Page print	Yes
Custom image	Custom stamp	Yes
	Custom watermark	Yes
Image edit	Multi-page enlargement	Yes Crop mark printing supported. Support enlargement from A type to B type / B type to A type.
	Mirror image	Yes
	A3 full bleed	Yes (A3 full image scanning at OC or from document feeder is available. And combination with other features are also available.)
	Centering	Yes
	B/W reverse	Yes (B/W copy only/ Colour copy impossible) (UK: not supported)
Colour adjustment	RGB adjustment	Yes
	Sharpness	Yes
	Suppress background	Yes

Copy Function		
	Colour balance	Yes
	Brightness	Yes
	Intensity	Yes
Quick file		Yes
Filing		Yes
Proof copy		Yes
Original count		Yes
Mixed original		Yes (same width + different width) can be combined with the AMS/ APS function.
Slow scan		Yes
Skip blank page		Yes (supported with DF and original glass)
Repeat layout		Yes (indeterminate size and photo repeat)
Book divide		Yes
Move		Yes
Document control		Yes (when the Data security kit is installed.)
Hidden pattern print		Yes (in combination with document control)
Track information print		Yes

Printer Functions			
Supported Windows OS	Windows 2000 / XP / Server 2003 / Server 2003 x64 / XP x64 / Server 2008/ Server2008 x64/ Vista / Vista x64/ Windows 7/ Windows 7 x64		
	Mac OS 9.0-9.2.2*/ Mac OS X 10.2.8* /10.3.9*/ 10.4.11/ 10.5-10.5.8/10.6–10.6.5 *downloadable from web		
Printer Functions	**Content**	**PCL**	**PS3 (Opt)**
Multiple pamphlet	Binds multiple pamphlet outputs into a single booklet.	Yes	Yes
Barcode font	JetCAPS BarDIMM emulation	Yes	No
Network tandem print	Two units connected via network can be used simultaneously for a printout.	Yes	Yes (Windows only)
Windows Cluster Print	When a Windows server breaks down, a mirror server takes over and executes the suspended print job. There may be colour differences between machine types	Yes	Yes (Windows only)
Encryption PDF/ PDF/ TIF / JPEG/ XPS direct print	PDF*1/ TIFF/ JPEG/ XPS file can be printed without printer driver. (1) Printing of e-mail attachment file (2) Printing from FTP/SMB server (3) Printing from setup file on Web page (4) USB memory - Support 4bit *1 Support separately about providing form.	Yes (Not for encrypted PDF/PDF)	Yes
N-up printing when direct printing	Possible to N-up setting when direct printing	Yes	Yes
Disabling setting of USB/SMB direct printing	Make disabling setting of USB/SMB direct printing.	Yes	Yes
Feeding tray setting when direct printing	Possible to select feeding tray when direct printing	Yes	Yes
E-Mail to print	Direct printing of an attached file upon receipt of the e-mail. (See (1) above)	Yes	Yes
Pull print from front panel	Browsing of FTP server from front panel and pull-printing of a specified file (direct printing). (See (2) above)	Yes	Yes
USB PULL print	Browsing of print data (including sub-folder) in USB from front panel and pull-printing of a specified file. (See (4) above)	Yes	Yes

SMB PULL print	Browsing of SMB (Network Folder) on the network from front panel and pull-printing of a specified file. (See (2) above)	Yes	Yes
FTP PUSH print	Forwarding the data from a client PC to a MFP server and pull-printing of a specified file (direct printing). (See (2) above)	Yes	Yes
Print by file setup on Web page [Web Submit Print]	Setting and direct printing of a file on network through Web page. (See (3) above)	Yes	Yes
ROPM	The function enables the printout of a multiple number of copies in one RIP processing.	Yes	Yes
Multi-access	RIP processing must be allowed during printing. Printing must also be allowed during scanning.	Yes	Yes
Paper direction setting for 2-sided printing of letterhead paper and pre-punched paper. (Logo paper print supported(SEGA AOK Corporation)	Pages with front-back attribute such as letterhead or punch paper are to be printed correctly in front-back page order for 2-sided printing.	Yes	Yes
Enable selected paper Type/Size in bypass tray	For setting of Bypass tray, even if the setup values on the main unit side do not match with those on the driver side, the printing will be executed in the setting of the driver regardless of the setup values on the main unit side.	Yes	Yes
Control of setting under terminal service environment	Print setting of each client is memorized under terminal service of server OS and Citrix Xen App (Presentation Server4.5, Xen App 5.0) environment. (Setup for each log-in can be skipped.)	Yes	Yes
Driver delivery function	SRDM allows the administrator to deliver a driver to clients. Or enables delivery installation by using MSI.	Yes	Yes
Form overlay	The function downloads a form to the main unit beforehand, sends the contained data only, and inserts the data into the form in the main unit for printout.	No	Yes
Planet Press	Object Lune Corporation's Planet Press (Software to execute the mapping of forms (DL beforehand) and variable data in the printer interior)	Yes	Yes
Improve the download method of font/form	Enhance the editing function on the Web page. • Deletion of each font/form. (Can be performed on the Web page and with PJL command) • Prevent overwriting of font/form (Can be performed on the Web page and with PJL command) This function is supported in the HDD.	No	Yes
Expansion font list	Perform self-printing of a font list.	No	Yes
Support human readable barcode	Possible to attach and output of human readable barcode	No (Separately supported)	No (Separately supported)
Bonjour for Macintosh environment	This technology detects and connects peripheral equipment on the network automatically. The dynamic network connection (computer, peripheral equipment and software) is possible without user setting.	No	Yes
Document control	Print the document with a fixed pattern to avoid illegal copy.	Yes (OPT)	Yes (OPT)

Object judgment (screen change / colour change)	In the printer colour mode output, object of image data (area of photograph / graphic text) is judged. Print screen (resolution) and profile (colour) are changed automatically.	Yes	Yes
CMYK simulation	Choice of CMYK simulation is as follows. 1. Default 2. Japan Colour 3. SWOP 4. Euroscale 5. Custom The operation when "Default" is selected is the same as the MX-2700 /MX-2300. Custom profile can upload by Web setting. Notation of driver is Custom. Example: - Use DIC authorization profile. When using SWOP profile in Japan.	No	Yes
Control image profiles	ICC profile (service web) Exclusive use of normally profile A/B/C	Yes	Yes
ICC Profile	<Source Profile> Choice of source profile is as follows. 1. Gamma 2.2 2. Gamma 1.8 3. Gamma 2.0 4. Gamma 1.6 5. Gamma 3.0 6. Gamma 2.6 7. Custom *Custom profile can be updated by Web settings. <Output Profile> It is possible to upload Custom profile on web page (for service/ for administrator)	Yes	Yes
Pantone colour	For Pantone colour support, the profile upload can be made by Web setting. The detail of Pantone support is decided by the license agreement with Pantone co.	No	Yes
Layout print	Layout supporting various printing applications. (When N-up printing A4 originals to A3 paper, the universe of original can be selected. It is used in the case of cut-off by offline.)	Yes	Yes
Binding with no line	To prevent bound pages from becoming thick, saddle stitch printing is performed for a small number of pages.	No	No
Chapter inserts	Insert blank page automatically to entering 1st page of each chapter to odd page.	Yes	No
2-colour printing	Print by black and either of C, M, Y, R, G, or B colour.	*1	No
Expansion of margin shift	In the current model, the margin shift width setting value can be changed per 10 mm. Change from 10 mm to 1mm. When margin shift is set, it will not be cut off when it is shifted.	Yes	Yes
Saddle staple support	In the current model, imposition of images and stapling are performed in saddle stitch printing. However imposition is sometimes already performed in the application etc. Therefore, the specification of saddle staple only is added.	Yes	No
A3 wide saddle staple support *Available later	Saddle stitch of A3 wide paper is available. This is the function to make pamphlet which is A3 full size by cutting A3 wide paper in off-line.	Yes	No
WSD support	For premium logo. (Discovery function for printer)	Yes	No

90 degrees rotation function	Even if paper is set to different direction, print with 90 degrees image rotation automatically when printing image is matched to paper size. (However, cannot change direction during job)	Yes	Yes
Spool display	Show jobs that will be spooled in HDD before ripping printer jobs.	Yes	Yes
Long original print	Print long size original. (max.1,200 mm) (supported by sim.)	*1	*1
Hidden pattern print	When printing confidential documents, print copy controlled characters such as "Copy prohibition" as hidden pattern behind the original.	Yes	No
Job cancel at Auto job control review	User can cancel the job at Auto job control review dialog.	Yes	Yes
A0 & A1 fit page	Print A0 & A1 data into A4 or Letter size.	Yes	No
Page interleave	This function is used to interleave each printed page with an identical insert page. To use this function, it's necessary to use the "Overlay" function to prepare an insert page file.	Yes	No
Use driver to render JPEGs	In case of having JPEG image in the original document, user can select whether printer driver or MFP to render JPEG image.	Yes	Yes
Print position	This function is to adjust print position of odd and even page of document separately. (adjust per 1 mm)	Yes	No
Print number of page when N-up printing	Print number of page on not only each original but also each output.	No	No
Expansion of N-up printing	For example, in the case of 5 page documents, normal print only 1st page, and remaining pages are N-up printing. (can be 2-sided.)	Yes	No
N-up support when pamphlet print	For example, print presentation documents by 2-up and pamphlet layout.	Yes	No
Repeat printing of indeterminate size.	Repeat indeterminate size original with automatically reduction.	Yes	No
Print policy	To limit operation by user level, function to turn on some items is mandatory. Refer below on the item which is limited. Design consideration can support additional demand.	Yes	No
Always use user authentication	This function enforces print users to execute user authentication.	Yes	No
Always use retention	This function enforces print users to use retention function.	Yes	No
Toner save mode	Toner save mode (1 step) (3 steps: separately supported by driver)	Yes	Yes
RET support	Support RET (resolution enhancement technology) To smooth the edges of image and reduce jagged lines to obtain virtually high resolution.	Yes	Yes
Trapping	Select to prevent void area which may be generated around edges of colours.	Yes	Yes
Sharpness	This is used to sharpen an image or make it softer. 5 steps (sharp: 2 steps, soft: 2 steps)	Yes	Yes
Custom image registration	Custom image can be registered and stored into MFP through printer driver.	Yes	Yes
Function flow lite	Print + Send feature. "Send" can be specified by printer driver.	Yes	No

*1: To be supported separately about providing form.

Image Send Function	Sub Mode		
Scanner	Scan to E-mail/ Scan to FTP server*/ Scan to SMB*/ Scan to Desktop/ Scan to USB memory *Possible to hyperlink.		
Fax	-		
Internet Fax/ Direct SMTP	-		
Mode	Scanner	Internet Fax/Direct SMTP	Fax
File format	B/W: TIFF, PDF, PDF/A, Encrypted PDF, XPS Colour/Grayscale: Colour TIFF, JPEG, PDF, PDF/A, Encrypted PDF, Compact PDF (with MX-EB11 installed), XPS	B/W: TIFF-FX (TIFF-F / TIFF-S) Colour/Grayscale: TIFF-C	---
Image Processing			
Mode	Scanner	Internet Fax/Direct SMTP	Fax
Original scanning colour	Full colour, Grayscale Black-white	Black-white	
Auto colour selection	Yes	---	
Halftone reproduction	Equivalent to 256 steps		
Density adjustment	Auto Manual: 5 steps		
*Original type (can be selected when "Manual" is set) - Text / Printed photo - Text / Photo – Text - Photo - Printed photo - Map			
Magical scan (Area division + Suppress Background)	Yes	---	
Selection of image quality	---	Half tone (Black-white only) ON/OFF	
Resolution (depends on file format / transmission method)	100 x 100 dpi	200 x 100 dpi (Half tone not allowed)	Standard (203.2 x 97.8 dpi) (Halftone not allowed)
	150 x 150 dpi	---	---
	200 x 200 dpi	200 x 200 dpi	Fine (203.2 x195.6 dpi)
	300 x 300 dpi	200 x 400 dpi	Super fine (203.2 x 391 dpi)
	400 x 400 dpi	400 x 400 dpi	Ultra fine (406.4 x 391 dpi)
	600 x 600 dpi	600 x 600 dpi	---
Moire reduction mode	---		
CPT (notes) security)	Yes	---	
Drop out colour	Yes (Display mode/ B/W only)	---	
Sharpness	5 steps	---	
Contrast	Yes	---	

Specification of Addresses			
Mode	Scanner	Internet Fax/Direct SMTP	Fax
Address setting	• One-touch • Group key • Direct address • Selection from LDAP server • Entry from externally-connected keyboard <Direct address setting mode> • e-mail • Internet Fax (including Direct SMTP) • Fax • SMB		
Scan to Me	Yes	---	
Setting of default addresses*	Yes *The default address setting is available in Scanner mode. To transmit data, users only have to set the original and press the start key.	---	
Number of one-touch key registration	Total: 2,000 addresses		
Number of Group (1 key) address registration	Number of Group (1 key) address registration: max. 500 Number of Group key registration of direct entry: 6,000 (Total address number included in 2,000 key)		
Program	48 (Group/Individual) + 1 program preset		
Direct entry of addresses	Entry using soft keyboard or an external keyboard		Entry by 10-key, # key, *key
Chain dial	---		Yes (by Pause key)
Resend	Call up nearest 50 addresses sent or order of transmission frequent as a single destination.		
Destination confirmation	---		Yes
Speed dial	Use the 10-key to call up registered number of addresses.		
CC / BCC sending	Yes	---	
Subject	• Select from the list • Direct entry (80 one-byte/two-byte character, Number of list: 30)		---
File name	• Select from the list • Match the subject • Direct entry (80 one-byte/two-byte character, Number of list: 30)		---
Reply-to	• Select from the list • Direct entry • Select from the LDAP server	--- Default is 1 as own name.	
Transmission message (message body)	Yes		---
Transmission message selection	• Select from the list • Direct entry		---
Number of letters of transmission message	Up to 1,800 one-byte character (900 two-byte character)		---
Preset mail footer	Yes Function to set up a text message that will be added automatically to the message body upon e-mail transmission. Editing upon transmission is not allowed.		---
Disable registering destination from operation panel	Yes		

Disable registration destination on Web page	Yes		
Disable registration using the network scanner tool	Yes	---	
Disable resend on Fax/Image Send mode	Yes		
Disable selection from the address book	Yes		
Disable direct entry	Yes		
Disable broadcast setting	No		Yes
Disabling PC-Internet FAX sending	---	Yes	---
Disabling PC-FAX sending	---		Yes
Specification of Multiple Addresses			
Mode	Scanner	Internet Fax Direct SMTP	Fax
Broadcast	Yes (E-mail/ FTP/ Desktop/ SMB) (500 destinations)		
Sequential broadcast Transmission request	---		Yes
Transmission Functions			
Mode	Scanner	Internet Fax/Direct SMTP	Fax
Original size input/ registration	Yes		
Custom size input/ registration	Yes		
Memory transmission	100 destinations in all		
On-hook	---		Yes
Quick online transmission	---		Yes
Direct transmission (Switching: Memory transmission <-> Direct transmission)	---		Yes
Auto reduction sending	---		Yes
Rotation sending	---	Yes	
Scaled transmission	Yes. Enlargement/reduction is allowed only from a fixed size		
Re-send	E-mail/FTP/SMB/Desktop are included.		
Recall mode	---	i-FAX: Only the number of times is set. DSMTP: The number of times/time is set in the system settings.	Yes
Error	---	Yes	
Busy	---	Yes (D-SMTP)	Yes
Long original transmission	Yes Max. 1,000 mm (1-side only/ B/W2-levels)		
Change of the number of pages for each file	Yes	---	
Skip blank page (Support from OC)	Yes	---	
Verification stamp	Yes		
Restriction on transmission size	Yes	Yes (Direct SMTP: No)	---
Drop out colour	Yes	---	
Job build	Yes		
Slow scan mode	Yes		
Mixed size original	Yes		
Default date sender transmission	---	Yes	

Preview	Yes		
Fax destination confirmation	---		Yes Also support broadcast transmission of One-touch
Erase (Edge/Edge+ Centre/Centre/Side)	Yes (Edge/ Side only)		
Original count	Yes		
Deletion of transmission record	Yes		
Deletion of address from group which has already registered.	Yes		
Reception Function			
Mode	Scanner	Internet Fax Direct SMTP	Fax
Automatic reception	---	Yes	
Manual reception	---	Yes (Direct SMTP: No)	Yes
Switching from manual reception to auto reception	---		Yes (SEF only)
Fixed size reduced reception	---	Yes	
Fixed size reception	---	Yes (Soft-SW support)	---
Rotated reception	---	Yes	
Setting of received data print condition	---		Yes
Duplex reception	---	Yes	
A3 RX auto reduction print (for the area using Inch system)	---	Yes	
Letter size RX auto reduction print (for the area using AB system)	---	Yes	
Allowing Address/Domain setting reception	---	Yes (50 addresses)	---
Not allowing Address/Domain setting reception	---	Yes (50 addresses)	---
Allowing reception from a specific number	---		Only specific number (50/20-digits)
Not allowing reception from a specific number (To be rejected)	---		Only specific number (50/20-digits)
Not allowing reception from FAX without number	---		Yes (Soft SW)
External phone connection remote	---		Yes
Received data bypass output	---	Yes	
Reception confirmation cycle setting	---	Yes (Direct SMTP: No) (Setting by 0-8 hours/each minute)	---
POP3 communications timeout setting	---	Yes (Direct SMTP: No) (Setting by 30-300/ every 30 seconds)	---
Body text print setting	---	Yes	---

Data forwarding in case of trouble of output		N/A	Yes
Inbound Routing (Forwarding received data of Internet Fax)		---	Yes
	Formats	---	PDF, Single TIFF, Multi TIFF, XPS
	File name setting when inbound routing (Attached TSI information)	---	Yes
	Destinations	---	E-mail, FTP, SMB, Desktop, Fax, Internet-Fax
	Information about the MFP that transfers the data is added to the transferred data	---	Yes
	Timetable	---	Yes
	Alternative mode for destination error	---	Yes
	Easy switching destination of inbound routing	---	Yes
Output tray setting		---	Yes
Print number setting of received data		---	Yes
Staple setting of received data		---	Yes
Auto wake up print		---	Yes
Hold setting for Received Data Print ALL RX data into the memory regardless		---	Yes
Footprint		---	Yes
Image check (Preview)		---	Yes
	Forwarding from preview	---	Yes
	Filing to HDD from preview	---	Yes
	Registered to junk FAX from preview	---	Yes
	Print/ Delete/ Forwarding of specified page	---	Yes
Output only specified FAX number		---	Yes
Alternative reception number		100 (Total of Internet Fax and Fax)	

Other Functions			
	Scanner	Internet Fax Direct SMTP	Fax
Timer transmission	Yes		
Timer output	---	Yes	
Polling reception	---		Yes
Polling memory	---		Yes Up to 100 registrations allowed with bulletin board, confidential and relay broadcast all combined. (Free area: 1 registration) Setting of the number of transmission: 1 / no limit.
Own number sending	---	Yes	
Sender selection	---		Yes
Page number print	---	Yes	
Date print	---	Yes (date indication can be changed)	
Polling protection function	---		Yes
Dual page scan	Yes		
Confidential transmission	---		Yes (F-code)
Relay broadcast transmission request	---		Yes (F-code)
Relay broadcast Transmission (Fax to e-mail/ Internet Fax/ Fax (F-code))*	---		Yes *Function that enables settings of e-mail/Internet Fax/Fax addresses as destinations of F-code broadcast
2-in-1 transmission	No (Yes in case of broadcasting of Internet Fax/Fax)	Yes	
Suppress background	Yes (Colour, Greyscale, B/W)	---	
Card shot	Yes (magnification ratio 63-400%)		
Transmission confirmation	---	Yes Time-out 1min.-240 hours Set by 1 min. (Direct SMTP: No)	---
Forwarding reception/ transmission data (Document Admin)	Yes Forwarding data formats can be selected. (Single TIFF/ Multi TIFF/ PDF / XPS) (Scan to e-mail/ FTP/ SMB/ Desktop/ PC-Internet Fax/ PC- Fax/ Fax/ I-Fax are also supported) Folder setting by each of sending and receiving is supported.		
Number of Job status indication	99		

Transmission Method			
Mode	Scanner	Internet Fax Direct SMTP	Fax
Transmission time	---		2 seconds level (super G3 / JBIG) 6 seconds level (G3 ECM)
Modem speed	---		33.6 kbps -> 2.4 kbps Auto-fallback
Intercommunication	---		Super G3 / G3
Communication line	---		General line (PSTN), Independent business line (PBX), F-Net SEGA: R-key for PBX sending
ECM	---		Yes
Support digital network net (sending level)	---		Yes

Record Size			
Mode	Scanner	Internet Fax Direct SMTP	Fax
Maximum record width	---	293 mm	
Record size	---	A3 - A5, 11 x 17 - 5.5 x 8.5	

Registration-Related Setting			
Mode	Scanner	Internet Fax Direct SMTP	Fax
One-touch/Group* e-mail, FTP, Desktop, SMB, Internet Fax (Direct SMTP), Fax	2,000 destinations Possible to use LDAP *Since Scan/ Internet Fax (including Direct SMTP)/ Fax uses the common address book, the number of addresses allowed for registration is the sum total of all modes.		
Maximum registration number per group dial	500 addresses		
One touch name registration	36 characters in full and half size.		
One-touch dial receiver number registration	---		Up to 64 destinations including receiver number, sub-address and pass code (including"/").
Address book registration from Resend screen	Yes		
Default address setting	Yes	---	
Desktop registration	Yes (Registration by using Web or NST (Network scanner tool)	---	
SMB destination registration	Yes, can be registered on the Web.	---	
FTP destination registration	Yes, can be registered on the Web.	---	
Program	48 programs Preset: 1 program		
Number of memory boxes	---		100 (including bulletin board/ confidential/ relay broadcast)
Memory box registration name	---		Up to 18 characters in full and half size

Registration-Related Setting			
Mode	Scanner	Internet Fax Direct SMTP	Fax
Reply-to registration	1,000 (user registration from Web)	---	
Sender Registration	---	1 sender (up to 20 characters): Only one sender is registered, and i-Fax/Fax addresses or phone numbers are registered in the name part. (40 1-byte characters are available by soft switch setting)	
Number of sender selection registration	---		Total: 18 (20 2-byte characters / 40 1-byte characters) Sender selection is different from default.
Registration of polling approval number	---		Yes 10 numbers/20-digit
Quick key (short cut registration)	Yes (0001-2,000) Quick key is the function to select an address based on the registered number of each address within the book for address selection. Users can select a quick key number.		
Retrieving/scanning of registered data to other model	Yes (By address book conversion utility)		
Import/export of address book	Yes (By storage backup)		

PC-Fax / PC- I-Fax Functions			
Supported OS	Windows 2000 Windows XP Home Edition Windows XP Professional Windows Server 2003 Windows Server 2008 Windows Vista Windows 7 Mac 10.5-10.5.8, 10.6-10.6.5		
Interface	USB 2.0 10/100BASE-TX, 1000Base-T		
Communications protocol	LPR/lp, Port9100(RAW), IPP, USB2.0		
PC-Fax Send	Yes (with Fax equipped) Maximum of 64 digits for Fax number (including sub-address and pass code)		
PC-Internet Fax Send	Yes (Necessary options: I-Fax expansion kit) Maximum of 64 digits for I-Fax address		
Resolution	200 x 100 dpi/ 200 x 200 dpi/ 200 x 400 dpi/ 400 x 400 dpi/ 600 x 600 dpi		
Transmission original sizes	A3 / B4 / A4 / A5 / B5 / 8k / 16k		
Compression method	MH / MMR		
Broadcast transmission	Yes (mix of Fax and i-Fax is available. Max. destination: 500)		
F code transmission	Yes	Sub-address	Yes, Up to 20 digits
		Pass code	Yes, Up to 20 digits
Phone book registration / transmission function	Yes		
Attach cover sheet function (possible to use cover sheet made by application.)	Yes (Not allowed for broadcast transmission)		
Create cover sheets function	Yes (Entering address when direct entry)		
Own number send	Yes		
Preview function	Yes		
Transmission confirmation (Notice to PC by NJR)	Yes		
Document filing function	Filing	Yes	
	Quick File	Yes	
PC-Fax Transmission log	Yes (Retransmission allowed)		
User authentication	Yes		
Timer	Yes		
R-KEY (SEEG only)	Yes		
Connection with MFP address book	Yes (Import from address book editor)		

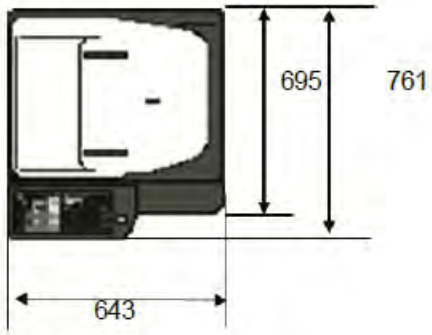
Configurations

■ Options List

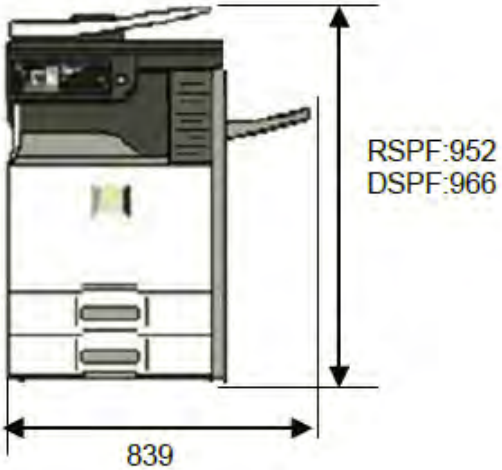
Model Name	Description	Remark
MX-RP14	RSPF	
MX-EF10	DSPF	
MX-DS15	Stand	Can not install either MX-DE15/MX-DE16
MX-DE15	1 x 500-sheet paper feeding unit	Can not install with MX-DE16/MX-DS15
MX-DE16	2 x 500-sheet paper feeding unit	Can not install with MX-DE15/MX-DS15
MX-LC11	Large capacity tray (A4)	MX-DS15, MX-DE15, or MX-DE16 is required.
MX-TRX2	Exit tray unit	
MX-TU13	Exit tray cabinet unit	
MX-FNX9	Finisher	Can not install with MX-FN10, MX-FN11, or MX-FN18.
MX-PNX1A/C/D	Punch module (A: 2, C: 4, D: 4 wide)	MX-FNX9 is required.
MX-FN10	1K Saddle stitch finisher	MX-RB11 is required. MX-DS15, MX-DE15, or MX-DE16 is required.
MX-RB11	Paper pass unit	
MX-PNX5A/C/D	Punch module (A: 2, C: 4, D: 4 wide)	MX-FN10 is required.
MX-FN11	4K finisher	MX-RB11 is required. MX-DS15, MX-DE15, or MX-DE16 is required. Cannot install with MX-FNX9, MX-FN10, or MX-FN18.
MX-FN18	4K saddle stitch finisher	MX-RB11 is required. MX-DS15, MX-DE15, or MX-DE16 is required. Cannot install with MX-FNX9, MX-FN10, or MX-FN11.
MX-PNX6A/C/D	Punch module (A: 2, C: 4, D: 4 wide)	MX-FN11 or MX-FN18 is required.
MX-PK11	PS3 expansion kit	
MX-PUX1	XPS expansion kit	MX-SM10 is required
MX-SM10	Expansion memory board	
MX-EB11	Enhanced compression kit	
MX-FX11	Facsimile expansion kit	
AR-SU1	Stamp unit	
MX-FWX1	Internet-FAX expansion kit	
MX-AMX1	Application integration module	Cannot install with MX-FR33. (If data security kit is necessary, MX-FR33U can be used.)
MX-AMX2	Application communication module	
MX-AMX3	External account module	
MX-FR33	Data security kit	
MX-FR33U	Data security kit Commercial version	
MX-PF10	Barcode font kit	
MX-KB11	Keyboard	RSPF: SEN is std. DSPF: SEN, SUK, SEF, SEB, SEGA are std.
MX-EB12	Mirroring kit	
MX-AM10	Web browsing expansion kit	
MX-USX1/USX5	Sharpdesk ver. 3.3 1/5-License kit	
MX-US10/US50	Sharpdesk ver. 3.3 10/50-License kit	
MX-USA0	Sharpdesk ver. 3.3 100 License kit	
MX-UN01A/05A	Sharp OSA Network Scanner Tool 1/5-License kit	MX-AMX2 is required.
MX-UN10A/50A	Sharp OSA Network Scanner Tool 10/50-License kit	MX-AMX2 is required.
MX-UN1HA	Sharp OSA Network Scanner Tool 100 License kit	MX-AMX2 is required.

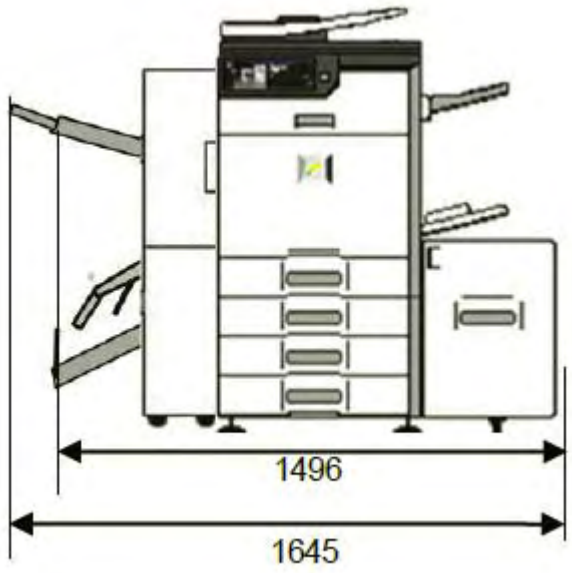
■ Outer Dimensions

<MX-5112N/ MX-4112N>



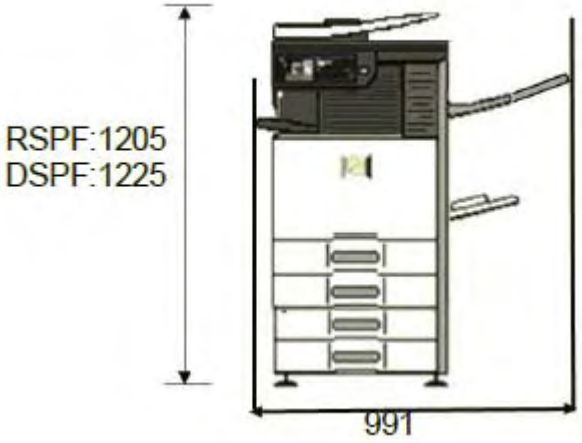
<When right exit tray is installed.>





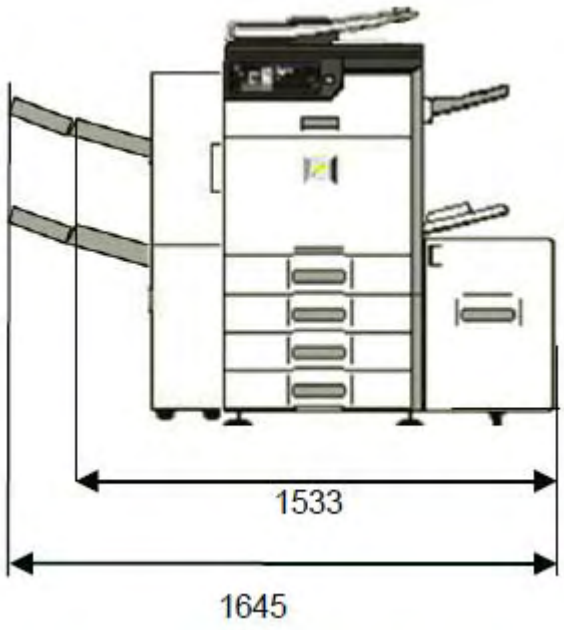
<Desk + Inner Finisher>

<Desk + Inner Finisher> (Right exit tray is expanded,)

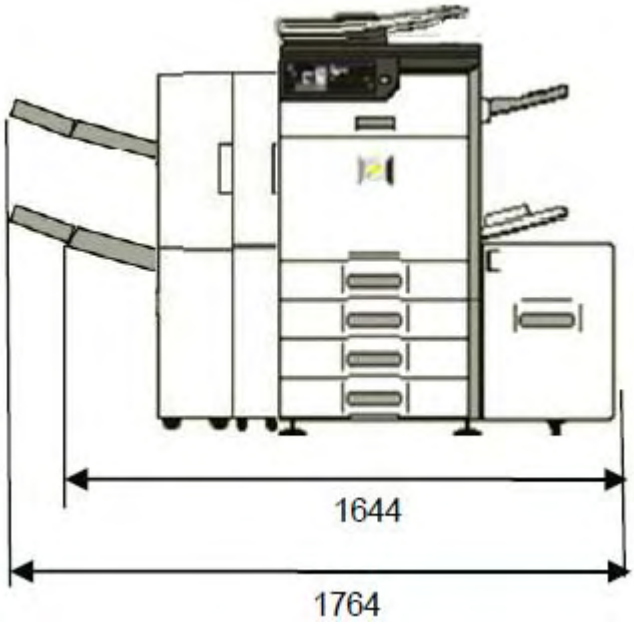


<1k finisher + Desk + LCC>

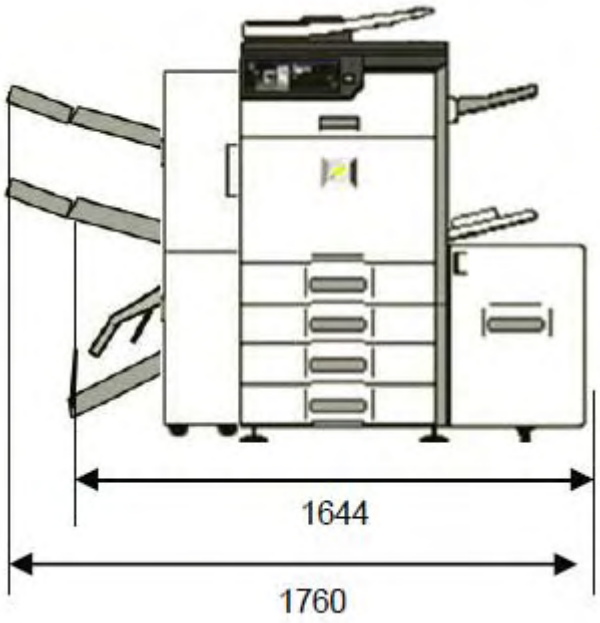
<4k finisher + Desk + LCC>



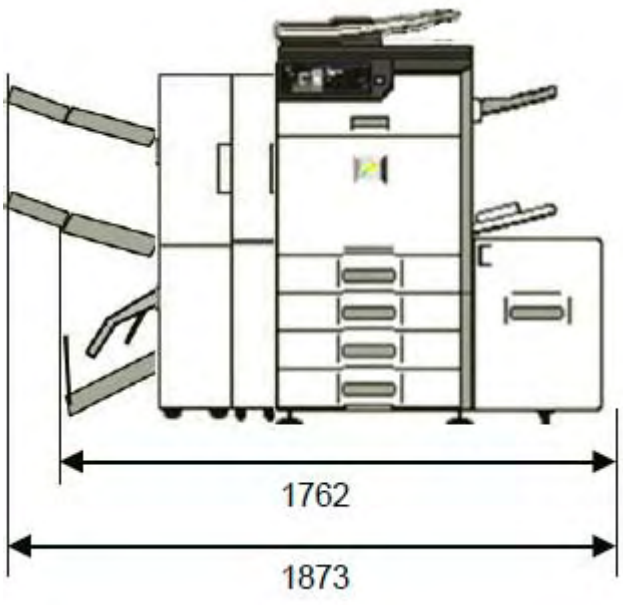
<4k finisher + Punch unit + Desk + LCC>



<4k saddle finisher + Desk + LCC>



<4k saddle finisher + Punch unit + Desk + LCC>



■ Functional Combinations

	Copy	PCL Printing	PS Printing	XPS Printing	Fax	I-Fax	Scan	Filing	Security	Sharp OSA
MX-5112N MX-4112N	√	√	√	√	√	√	√	√	√	√
MX-PK11			√							
MX-PUX1				√						
MX-SM10				√						
MX-EB11 (only for compact PDF)							√ (Colour scan only)			
MX-FX11					√					
MX-FWX1						√				
MX-FR33/33U									√	
MX-AMX2/3										√

√: required

Installation Reference Guide

Options	Installation/Soft Keys
MX-PK11: PS3 Expansion Kit	Soft key has to be input for activation.
MX-PUX1: XPS Expansion Kit	Soft key has to be input for activation.
MX-FX11: Fax Expansion Kit	Install external box by using parts for mounting.
MX-FWX1: Internet Fax Expansion Kit	Soft key has to be input for activation.
MX-PF10: Barcode font kit	Soft key has to be input for activation.
MX-FR33/33U: Data Security Kit	Replace flash ROM physically and install the Document control board. (Download from USB memory.) Then soft key has to be input for activation.

■ Consumables List

Model name	Contents	Qty	Life	Min. Order Qty	Remark
MX-51GT-BA	Black toner cartridge	X1	40k	10	A4 5% coverage
MX-51GT-CA	Cyan toner cartridge	X1	18k	10	A4 5% coverage
MX-51GT-MA	Magenta toner cartridge	X1	18k	10	A4 5% coverage
MX-51GT-YA	Yellow toner cartridge	X1	18k	10	A4 5% coverage
MX-31GR-SA	OPC drum	X1	150k (Black) 100k (Colour)	10	
MX-51GU-SA	OPC drum unit (OPC drum / Unit parts included)	X1	150k (Black) 100k (Colour)	10	For all colour
MX-51GV-BA	Black developer	X1	150k	10	
MX-51GV-SA	Colour developer	C/M/Y X1each	100k	10	
MX-510FB	Fusing belt kit	X1	200k	10	
MX-510LH	Pressure roller kit	X1	200k	10	
MX-510WB	Web cleaning kit	X1	200k	10	
MX-510B1	Primary transfer belt kit	X1	100k	10	
MX-510TL	Primary transfer blade kit	X1	100k	10	
MX-510CU	PTC kit	X1	100k	10	
MX-310B2	Secondary transfer belt kit	X1	300k	10	
MX-310PD	PS paper dust removing unit	X1	100k	10	
MX-C31FL	Filter kit	X1	100k	10	
MX-510HB	Toner collection container	X1	50k	5	5% coverage for each colour 25% colour ratio
MX-510MK	Main charger kit	X1	100k (Black) 60k (Colour)	10	
AR-SC2	Staple cartridge	X3	5,000 times	40	For MX-FN11/ MX-FN18
AR-SC3	Staple cartridge	X3	2,000 times	40	For MX-FN10/ MX-FN18
MX-SCX1	Staple cartridge	X3	5,000 times	20	For MX-FNX9/ MX-FN10
AR-SV1	Stamp cartridge (for AR-SU1)	X2	-	1	
MX-510U1	Primary transfer belt	X1	-	1	Product for service purpose
MX-410U2	Secondary transfer belt	X1	-	1	
MX-411FU	Fusing unit	X1	-	1	
MX-510FU	Fusing unit	X1	-	1	

The life may vary depending on the document and the environmental factors.